

# Philip Johnson poised to make his mark on London

ST MARTINS Property Corporation has confirmed that the doyen of American architecture, Philip Johnson, has been appointed with his partner, John Burgee, as the architect for phase two of London Bridge City on the south bank of the Thames.

The Kuwaiti-owned St Martins is remaining tight-lipped about what sort of scheme Johnson and Burgee have in mind for the 149,000sq m still to be developed in phase 2.

A spokesman for the company said the community as-

By Lee Mallett

...signing off...



THE HEAT PUMP

pects of the scheme, which in outline amount to 1,900sq m of recreational and leisure buildings and 15,500sq m of open space, will remain the same.

It is likely that the commercial elements, granted in outline under a special development order in 1983, will be substantially revised. These include 117,000sq m of offices, 5,500sq m of retail and 3,200sq m of hi-tech/light industrial space.

A further 22,000sq m of

residential was planned. The outline consent also set the height of any scheme at 57m.

Other guidelines set out in the outline consent provided that there should be a riverside walkway from Hays Dock to Tower Bridge and that an east west axis should be created through the middle of the site, reinforced in form by the buildings around it. Existing north/south routes between the river and Tooley Street should be retained.

A public park was intended for the eastern end of the site next to Tower Bridge.

Other architects competing with Johnson and Burgee, it is rumoured, included two more American firms and two English firms. Their names are not being revealed, but the two UK practices could be Michael Twigg Brown & Partners and

John S Bonnington.

The latter designed No 1 London Bridge in phase one, while the former designed both the Cottons building and Hays Galleria.

Johnson, now 80, is America's most famous architect. His best known building, the AT&T headquarters in Manhattan, features as its crowning glory a classical, outsize, broken pediment.



Philip Johnson — America's most famous architect.

## Penzance project gets green light

PLANS for a £21 million development of Penzance Harbour and surrounding area have been given the go-ahead by Penwith District Council.

And once a final report on the area has been published by consultant architects Graham Moss Associates and marine planners Wallace Evans & Partners, the council will be shortlisting developers and architects for the scheme.

Funding for the proposed marine village and major leisure and retail centre will be from the public and private sectors.

Penwith council will be con-

tributing £1 million, a private sector, £10 million, the EEC's European Development Fund £1 million from government.

The Graham Moss Associates major opportunity development which, more than 300 jobs, stem economic district.

The closure of the mine earlier this year, unemployment figure area up to 24 per cent, twice the national average.

## Seifert backs clerk

TOP commercial architect Richard Seifert is predicting another Ronan Point-type disaster if fast-track building methods are not supervised properly.

Speaking at the annual dinner of the London chapter of the Institute of Clerks of Works this week, Seifert said projects which are given with strict deadlines and completion dates could be the Ronan Points of the 1990s.

unless greater vigilance is exercised.

Recent tests on the Ronan Point in end have found evidence design and bad work with joints packed with ends and tin cans are mortar specific.

A good clerk of works have prevented that workmanship by sign.

# BUILDING DESIGN

No 811

The weekly newspaper for the design team

FRIDAY NOVEMBER 7 1986

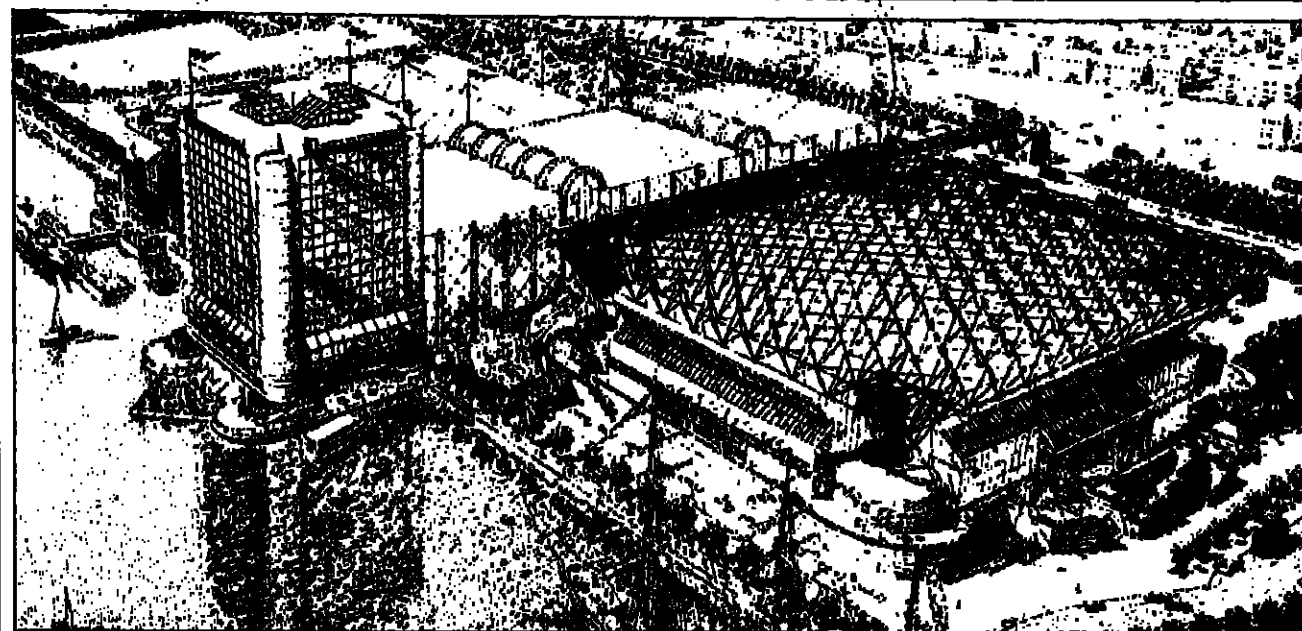
## Conran's museum approval

DETAILED planning consent has been granted for the Conran Foundation's new design museum fronting the Thames next to Tower Bridge.

The 3,000sq m museum will form the cultural centrepiece of the 4.8ha Butler's Wharf rejuvenation project which Conran, Roche and Sir Terence Conran are masterminding.

The building will be the new home for what was the Boilerhouse Project at the Victoria & Albert Museum, where the foundation's lease has run out.

It will house a permanent design exhibition and offer space for temporary thematic shows. Study facilities and



American architects HOK have designed this sports scheme for London's Docklands. See story below.

## Docklands targets for big US practices

# AMERICAN FIRMS' DESIGN INVASION

AN invasion of American architects is hitting the British market with four big London projects being designed by US practices and more promised.

Chicago-based Skidmore Owings & Merrill, who are working on Canary Wharf and the Bishopsgate frontage to the Broadgate scheme, have set up a London office and are recruiting British architects.

There are fewer than 10 staff and they are all American, but they hope to expand to around 25, with a British majority, by Christmas.

SOM have only three overseas offices — the others are in Jeddah

By John Wood

and Manila — and Roger Coleman, who is in charge in London, said they hope it will become a centre for their European operations.

Most of the office's work is on

Broadgate and Canary Wharf but Coleman revealed that there are other jobs underway.

Although it is believed there were early difficulties with work permits, Coleman said the authorities had been very helpful and there were now no problems.

Helmut Obata & Kassabaum (HOK), one of the largest American practices, based in Missouri and with offices in the major US cities, Riyadh and Hong Kong, is preparing the designs for the London Dome sports complex in London's Royal Docks for the Laing VOM Fox consortium.

HOK's scheme includes two main facilities, Ron Labinski of HOK's Kansas office told BD, a 2,250sq m arena and an 18,000sq m exhibition hall plus hotel and trade hall.

The LDDC is still discussing the exact content of the scheme with Newham Council. Labinski described HOK's proposals as still being "schematic" only.

US architects were recently appointed for another prestige project, phase two of London Bridge City, which will be designed by America's most famous living architect, Philip Johnson and John Burgee.

They won the commission against competition from two other American and two British

architectural practices.

New York's Kohn Pedersen Fox have recently been commissioned to design one of the towers at Canary Wharf.

Clark Tribble Harris & Li are also seeking British money, but on the Unlisted Securities Market.

## Classical market plan unveiled

LEON Krier this week revealed his low-density classical master-plan for the redevelopment of the Spitalfields Market site in east London.

Commissioned by developers Roschaupt Stanhope, the scheme consists of "traditionally built" shops, offices and houses as well as several classical public buildings around a central square.

A representative from Tower Hamlets remained uncommitted but described the project as a "very interesting contribution to the debate" that now sees Krier pitted against rival proposals from Richard MacCormac with Fitzroy Robinson and one forthcoming from Seifert.

Stanhope, Stuart Lipton's private property company, could be floated on the Stock Exchange within the next few weeks.

However, some market observers think it more likely that Lipton will reverse Stanhope into another company and obtain his Stock Exchange quotation in that manner.

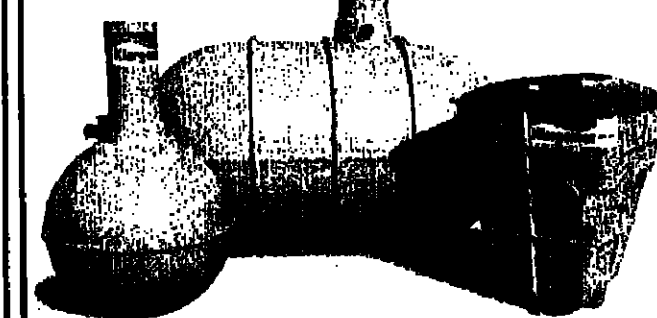
Estimates value Stanhope at around £100 million. Krier designs page 2

## Beeb awards

THE BBC is to launch a new design award scheme, including a category for architects. The awards are intended to involve the public, and will be launched on BBC2 on Wednesday, November 26.

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As an example of scheme.

courses will be offered together with seminars and lectures, and eventually the foundation hopes to be able to offer facilities for film and television production.

Next door to the museum, the foundation has plans for a design study centre, operated with the Royal College of Art, to provide high-level courses for designers, manufacturers, businessmen and students.

## Election criticism

RIBA president Larry Rolland has repeated his condemnation of "domestic squabbling" over the battle for his successor.

He was addressing more than 500 members at the annual dinner of the West Midlands region in Birmingham on Tuesday night.

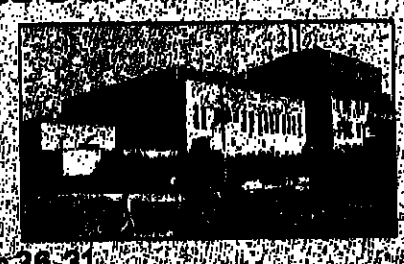
Rolland said: "I guess the world looks to the RIBA for four or five months every two years to provide this richly comic entertainment. Issues are trivialised and distorted beyond recognition. Wild and damaging claims are being made that I deplore."

Andrews attacks Hackney — back page

## INDEX

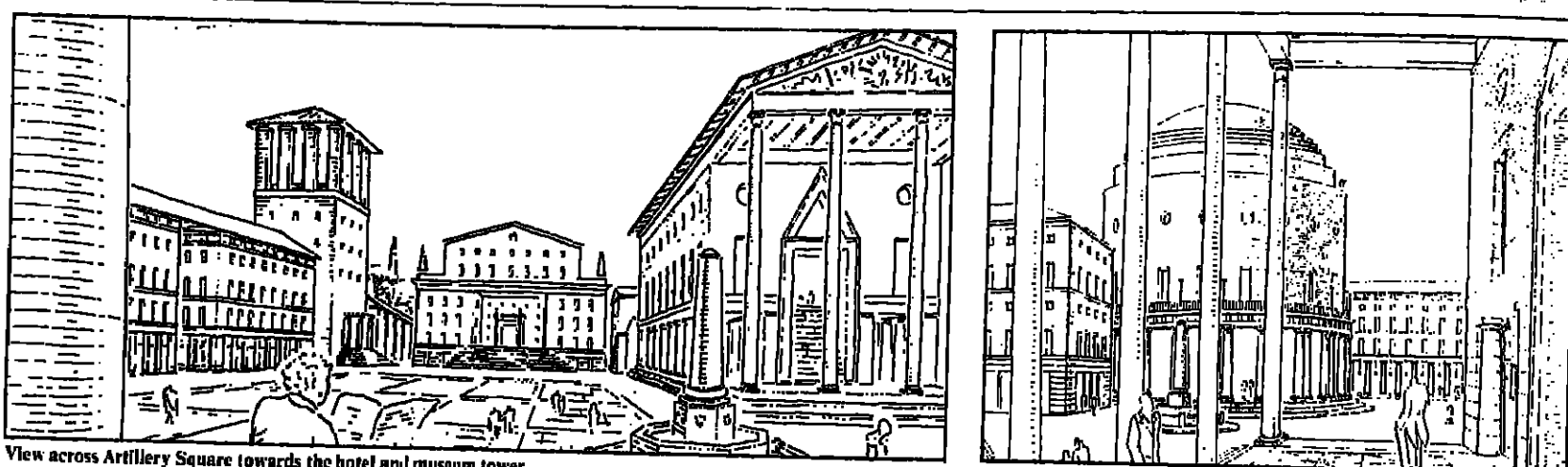
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## Hospital treatment



pages 26-31





View across Artillery Square towards the hotel and museum tower.

Artillery Square; the dealing hall from the assembly hall.

## Students combine on new initiatives

THE third National Architectural Students Association conference was held last week at the Polytechnic of Central London.

With a paid-up membership of more than 100,000 students, the NASAA is the largest of its kind in the world. It is a non-profit making, not-for-profit organisation, formed in direct response to the closure of the Huddersfield, North-East London Polytechnic, NASAA has now made new phase. Although aimed at the conference was designed for the organisers without of the 36 existing schools, the 60 students who took part in energetic shop discussions on topics put forward as motion conference. Topics under discussion ranged from education towards the NASAA's response to the Architects Against Apathy and Architects for Peace.

The topics discussed in shops were later informed by a talk from Stansfield Smith. The conference title, "Education: the present system re-examined, changing professions" is a potential role of the architect in the future. The conference was an indication of the importance of the schools. The conference was an indication of the importance of the schools. The conference was an indication of the importance of the schools.

## Conservation classic

THE second redevelopment proposal for Spitalfields Market east of the City of London was unveiled this week by the (on the face of it) unlikely team of architect/master planner Leon Krier, and developers Stuart Lipton and Godfrey Bradman of Rosehaugh Stanhope.

The scheme is in marked contrast to the one proposed by Richard MacCormac with Fitzroy Robinson, not only in height and density, but also in composition and detail.

Krier sees the opportunity to re-establish the community of Spitalfields West at the heart of which the site lies, bordered by three conservation areas.

The mixed development — 45 per cent offices, 45 per cent housing and 10 per cent shopping/industrial — is consistent with the "visionary" brief prepared by Tower Hamlets. It incorporates a central focus, Artillery Square, with a hotel, assembly hall, domed dealing hall and Huguenot Museum tower to commemorate the French immigrant founders of Spitalfields.

Monotony and uniformity are avoided by distributing the functions across the site like a checkerboard, alternating functions and building types to give interest and variety. Only the public buildings are allowed to exceed the self-imposed five-floor height limit.

Krier has indicated that architects such as Robert Adam, Abdel Wahed El Wakil, Demetri Porphyrios, Jaquelin Robertson, John Simpson and Quinlan Terry would be entrusted with detailed design of the buildings, "without exception champions of active historic conservation".

Lipton and Bradman see the scheme as financially viable, despite its comparatively low density, because the attractive setting would command high rents, though its profitability would ultimately depend on obtaining the site for rather less than the £150 million overall offer from rival developer IET.

The masterplan looks likely to receive widespread support from community and conservation groups, and its faithful implementation would be a true test of developers who see themselves as "custodians for future generations".

Jan Latham

## Good news for Corby leisure plan

THE first stage of a £400 million "leisure city" in Corby, Northants, looks set to go ahead after the developers Wonderland secured a £47 million loan this week.

A spokeswoman for the company said it was confident that the rest of the £150 million needed for the first stage would be secured and that it would be open in 1989.

Derek Walker Associates have produced the outline plan for the scheme, which was conceived 14 years ago and researched since 1981. They have already produced detailed designs for the first stage.

But a spokesman for the architects said they expected additional practices would be needed for further stages of the project, which will take 10 years to build and cover 400ha.

## Mosque conversion fuels Church exemption row

VITRIOLIC criticism of alterations to a Spitalfields mosque by Georgian Group secretary Roger White has been described as irresponsible and misguided by the project's engineer.

In a letter circulated to a number of MPs, including William Waldegrave at the DoE, English Heritage chairman Lord Montagu and other conservation bodies, White attacked work being carried out on a mosque at the corner of Brick Lane and Fournier Street in London's East End.

The Grade II listed building has served successive ethnic groups in the area starting in 1743, becoming a centre for the

conversion of Jews to Christianity, a Methodist chapel, a synagogue and most recently a mosque.

White claimed the building had been "almost gutted", that

extending a first-floor tiered gallery. Woodwork has been removed while the work is carried out, but the engineers, Associated Consulting Engineers, intend to re-use as much as possible.

In addition, parts of the woodwork are not original, having been replaced after a fire in 1930. And English Heritage, which has been monitoring the work, is using some of the oak beams in its restoration work at Hampton Court.

A spokesman for the engineers, Gulzar Ahmed, said: "White obviously looked at the work at the worst possible time and jumped to conclusions".

An unrepentant White conceded "that perhaps more could be said for the mosque's side of

By John Wood

it was impossible to find out what the proprietors' plans were, and that one of the most important interiors in Spitalfields had been lost.

He described it as one of the most outrageous exploitations of ecclesiastical exemption in recent times and called on Tower Hamlets council to turn down the planning application for minarets.

The work involves raising and

## Camden try Centre Point purchase

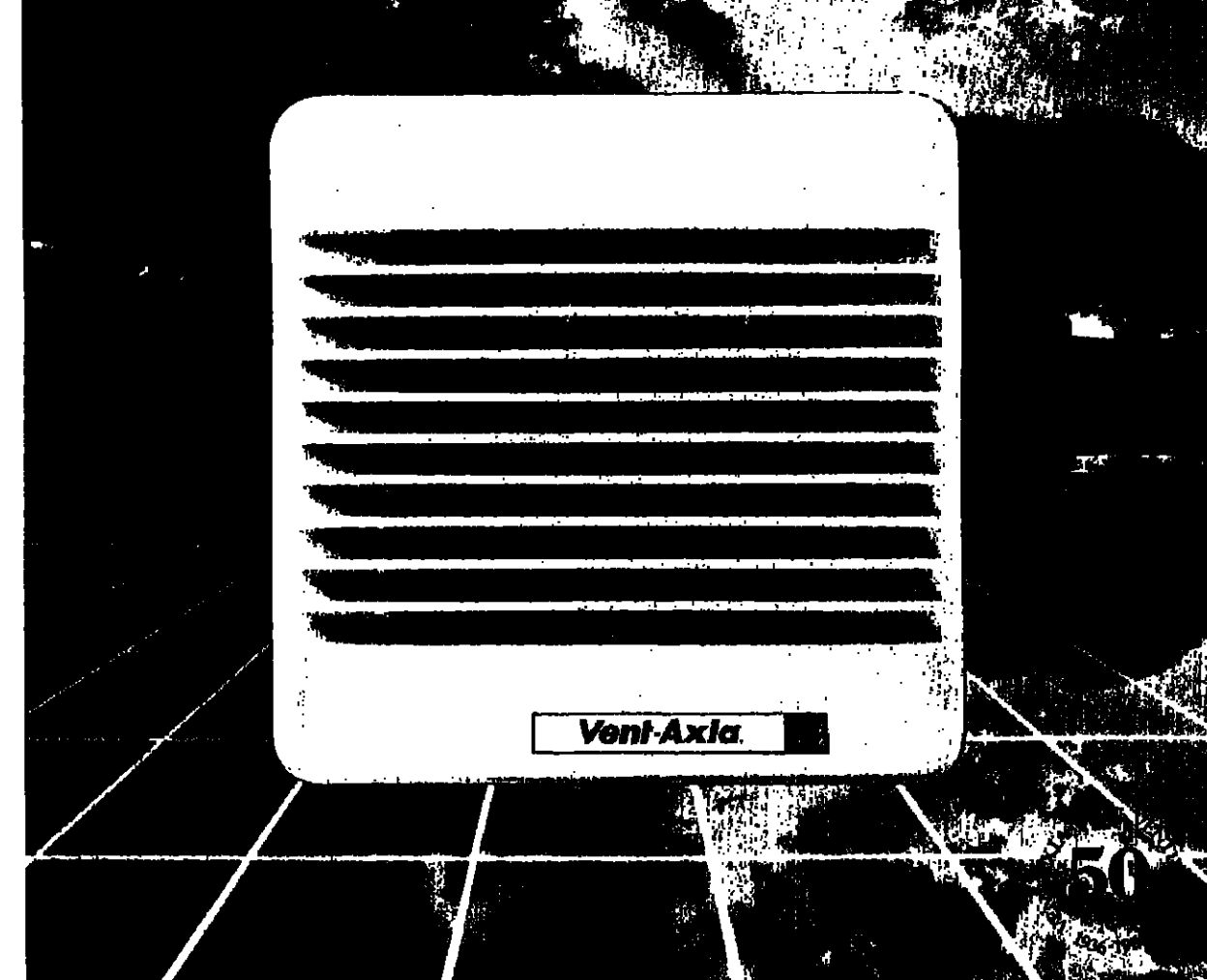
CAMDEN council is mounting a second attempt to purchase compulsorily the maisonettes in Centre Point, the controversial office tower in London's West End designed by Seifert and developed by Harry Hyams.

According to Camden council the maisonettes have hardly been used since the complex was completed in 1967. Only for a short time were the 2-bedroom flats available for holiday lets.

The council is taking advantage of the Local Government Miscellaneous Provisions Act, 1976 which amended council's compulsory powers allowing them to acquire rights of way over adjacent property.

A previous attempt to purchase the flats in 1974 failed because the council needed rights of way over adjacent parts of the complex but could not compulsorily acquire them.

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## Getting to grips with garden festivals

LANDSCAPE architect Brian Clouston, sees British garden festivals as exhibitions with little permanent value to the community. This was revealed at the Urban Design Group's evening talk and discussion last week, writes Philip Cave.

Jo Samworth, design coordinator for the Stoke-on-Trent Garden Festival, sees them as rejuvenators, at least as far as Stoke is concerned.

Clouston favours the German model of reclaiming derelict land and leaving a substantial part as park with a small proportion for redevelopment. He sees little problem with the management of large areas of parkland in our cities if maintenance regimes are changed to manage more natural landscapes.

With the British model of creating "exhibitions" with an after-use of predominantly industry or housing, the infrastructure costs of roads and services are very high, in fact five or six times more costly than reclaiming for amenity after-use.

Samworth confirmed this with Stoke where it was recently revealed that a large part of the site may be retained as a park. The result was that a costly infrastructure of roads and services, already put in and buried, may never be uncovered on part of the site.

If the formal gardens and lake at Stoke do remain as a public park, the percentage of permanent facilities created looks promising: 4.5ha of permanent park including marina, 18 houses and the pub; 20ha of woodland ridge. This would leave only 12ha for redevelopment.

Liverpool was left with no after-use when the city council withdrew its agreement to manage it as a park. Part was then turned into a theme park, but the operators have now gone into liquidation, leaving its future in question. It seems incredible that so little forward planning has gone into our festivals.

## Canary Wharf offshoot to get Ridley scrutiny

PLANNING permission was granted this week for part of Canary Wharf outside the enterprise zone in London's Docklands — pending approval from the environment secretary.

The London Docklands Development Corporation recommended approval of the Westferry Circus development which comprises 127,000sq m of offices, 6,700sq m of commercial space, a 48,050sq m hotel and major traffic interchange to serve the massive 1

development Corporation recommended approval of the Westferry Circus development which comprises 127,000sq m of offices, 6,700sq m of commercial space, a 48,050sq m hotel and major traffic interchange to serve the massive 1

By Alan Thompson

million sq m banking and commercial centre proposed for the Isle of Dogs.

The LDDC will now refer the application, which is part outline and part detailed, to the environment secretary as the scheme is a major departure from the Tower Hamlets borough plan.

If it is not called in for a public

inquiry, the scheme will go ahead.

But local pressure group Docklands Forum will be asking the DoE to call in the scheme. A spokesman for the group said: "We are writing to Nicholas Ridley and our MPs will be raising the issue in the Houses of Parliament."

Main objections are the size and scale of the proposed development, traffic implications for the area and the fact that the LDDC has pushed the application through without a public inquiry.

English Heritage has joined the objectors and expressed concern at the scale of the proposed, planned demolition of listed buildings, and the implications for the rest of the Isle of

Dogs.

Tower Hamlets is known to have reservations about the plan but has not come out strongly against it for fear of losing the Canary Wharf development and the massive income it would generate.

Other boroughs sharing boundaries with Tower Hamlets have asked to be consulted and Southwark has urged Ridley to call the application in.

### Duo debate

TICKETS are still available for the Welsh presidential debate between Raymond Andrews and Rod Hackney on November 13 in Cardiff.

Further information from Don Snow, 0222-561124.

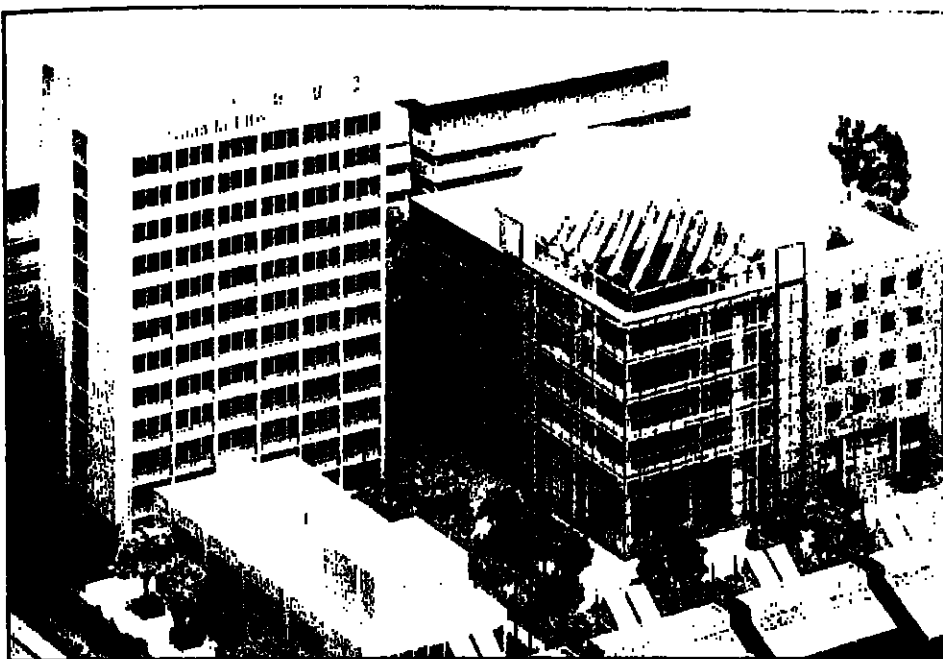
### Civic Trust picks new director

THE Civic Trust has appointed Martin Bradshaw as its new director, replacing the late 1970s.

Bradshaw, who was town planner in the West Yorkshire and political county council established in 1974, became director of the late 1970s.

He succeeds Martin Bradshaw, who was town planner in the West Yorkshire and political county council established in 1974, became director of the late 1970s.

Bradshaw was a selection panel of MEPC and London Development Corp. Christopher Bence, chairman of its



### Design for insurance at Potters Bar

Rock Townsend designed this 9,290sq m, five-storey office complex for the Canada Life Assurance Company's new headquarters at Potters Bar. The concrete-framed, granite-clad building is L-shaped with a glazed atrium hung from a steel skeleton, created by engineers Alan Baxter & Associates. Completion is expected within 83 weeks, by May 1988.

## CAG demands incentives for inner city home development

THE RIBA's Community Architecture Group has urged the Government to offer cash incentives for housebuilders to develop inner cities sites.

CAG will attempt to prove that substantial long-term savings can be made by employing community architects on large-scale inner city schemes.

It has cited maintenance, policing and social services as examples of where large savings can be made. The money would

then be offered to housebuilders in the form of a grant.

To prove its point CAG has launched its own study into the cost-effectiveness of community architecture.

The RIBA sponsored study will be funded from a £10,000 increase in CAG's budget, which it expects to be confirmed at the November council meeting.

CAG spokesman Ian Finlay admitted community architecture was more expensive in professional time, but said the long-term benefits, including a happier local community, should be considered.

A separate study into the group's current fee scale is also being carried out.

CAG says that because community architecture is more

By Amanda Bailieu

demanding on the architect's time, fees should be adjusted accordingly.

Finlay said community architects are foregoing their own fees to support clients, and many are finding it hard "to make ends meet".

Meanwhile the group has attacked comments made last week by RIBA public affairs director David Atwell, following Prince Charles' speech to the housebuilders.

Atwell said that the Prince was not fully informed of the situation which made developing green-field sites problematic.

"There is a major role for architects to work with local communities which the RIBA failed to support. It also failed to stress that the RIBA membership can play a major role in these areas if funding is unlocked," he said.

## Surveyors in regional policy call

THE "plethora" of regional aid schemes in England has been criticised by the Royal Institution of Chartered Surveyors.

In a report, *Regional Policy: A Fresh Approach*, it has called on the Government to streamline the system by creating a single structure for each region on the same lines as the Scottish and Welsh development agencies.

It suggests that eight English regional agencies should be formed with a Cabinet minister responsible overall and junior ministers for each region.

## Landmark changes

APPLICATIONS for a change of use for County Hall have been submitted to Lambeth council.

The new owner of the building — the London Residuary Body (LRB) — has been advised by estate agents Richard Ellis.

The applications seek permission for County Hall to be turned into an hotel, or offices "for any purpose".

Lambeth said the applications will be dealt with in the normal way. It has eight weeks in which to make the decision.

## Lutyens House permission

PROPOSALS for refurbishment and internal reconstruction of Lutyens House have been given planning permission and listed building consent by the City of London, subject to approval by English Heritage.

The plans by William Nimmo & Partners for Greycoat include the repositioning of the boardroom in the basement of the Grade II listed building allowing more office space.

## Shop talk

THE refurbishment of shopping centres is the subject of "New Shops for Old", a one-day conference at the RIBA on November 26. Details 01-580 5533 (ext 4334).

## Russian guests on the future for our cities

AN Anglo-Soviet architectural forum will be held at the Polytechnic of Central London on November 22.

Sponsored by the Society for Cultural Relations with the USSR, its theme will be the evolution of the 20th century city in the USSR and the UK.

Twenty leading Soviet architects will show examples of their work in town centre develop-

ment and it is hoped British architects will make a similar contribution.

An exhibition on the restoration of town centres in the USSR will also run from the date of the forum until December 13 in the foyer of PCL.

Further details can be obtained from SCR, 320 Brixton Road, London SW9 6AB. Tel: 01-274 2282.

## Redesign for Wrightian New York monument

NEW York architects Gwathmey Siegel & Associates are to redesign their proposed extension to Frank Lloyd Wright's Guggenheim Museum (see *BD* September 12).

This follows recent consent by the New York Board of Standards & Appeals to "keep the record open" pending revisions.

Approval of the original plans for a large cantilevered block over the smaller rotunda looked unlikely as a result of influential

lobbying. The revised scheme will not be underground, as opponents suggested it should be, but on the annex behind the museum and with substantially reduced impact.

With the next BSA hearing scheduled for March 3 and with 60 days required for review by the local authority board, Gwathmey Siegel will have to complete design revisions before the New Year.

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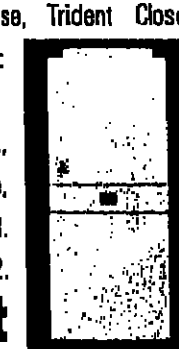
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# Twelve Glasgow blocks fail to meet blast standards

TWELVE out of 44 system-built tower blocks in Glasgow need strengthening to bring them up to the Government's minimum pressure loading standard of 17kN per sq m.

And three 25-storey Reema blocks in Royston have been labelled as a major fire risk by tenants because of gaps between floors and walls and the presence of polystyrene foam in new metal cladding around the building.

Two 13-storey Reema blocks in Cambuslang still have piped gas in them and tenants fear they will not withstand a 34kN per sq m blast.

Glasgow's high-rise housing stock of 44 towers was checked by local engineering consultants W A Fairhurst & Partners following the Ronan Point disaster in 1968. All were passed as safe.

Fairhurst's based many of their conclusions on detailed drawings which showed how the structure should have been built.

But recent tests have found that the actual work in joints on

the building "does not necessarily correspond" with that shown in the detailed drawings. Secret reports given to the council by Fairhurst's on February 17, 1969 revealed serious

By BD Reporter

misgivings about the long-term ability of many Glasgow blocks to withstand wind loadings.

Fairhurst's gave warnings about four estates:

● Maryhill B — evidence was found of overstressing on wind loading of 49 per cent above normal permissible stresses;

● Royston B — overstressing of 67 per cent above normal permissible stresses for dead and live loads;

● Springburn A & B — severe cracks in walls on a scale that could alarm occupants could occur in high winds.

Fairhurst's were unable to recommend any method of strengthening.

Glasgow City Council has been involved in tests on its high-

rise stock for the last two years following DoE and Scottish Office directives that local authorities should check system-built blocks.

A spokesman told BD the council was planning to strengthen all blocks below 17kN per sq m. Work is due to start in January next year and the first phase for the blocks should be complete in March, with phase II for the remaining five blocks following soon afterwards.

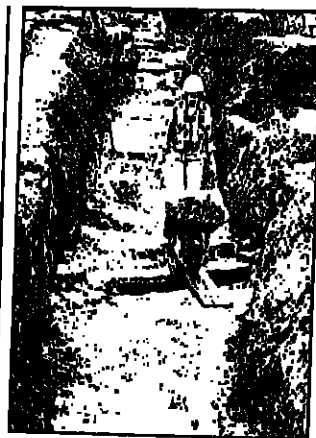
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## The Royal Mint with the hole

With the first phase of excavation work at the Royal Mint in progress, architects RMJM are working on the final details of the listed Seamen's Registry, on the northern side of the Royal Mint forecourt.

The current scheme turns the registry, designed by James Johnson as dwellings for officers of the Mint, into speculative offices.

The interior of the building will be gutted, says RMJM, with only the northern and eastern walls retained.

The registry, along with other listed structures on the site, including the original walls, two entrance lodges and cast-iron lamp standards, all need listed building consent from English Heritage before demolition can take place.

Full planning permission has been given by the council.

Sheppard Robson, responsible for the job of incorporating parts of a 14th century abbey, unincorporated during the recent restoration, structure.

The Museum of London, which is carrying out the excavation, says the abbey remains are of "high quality". Sixteenth century brick floors, a death casket, and a 17th century clock, have also come to light. Work complete in 1988.

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## 'Deprivation' sparks conference on estates

A CONFERENCE aimed at focusing attention on the problems of outer housing estates, as opposed to inner-city estates, will take place on Thursday, November 27 in London.

Glasgow, Hull, Knowsley and Middlesbrough councils are organising the conference. Speakers include MPs Michael Heseltine and Jeff Rooker.

Studies by the urban research company CES for the four councils showed that their outer estates have suffered disproportionately from the decline of manufacturing and construction industries, and have not fully benefited from Government urban programmes or special employment measures.

"State dependent, isolated communities with no infrastructure, environment or services", is how Middlesbrough councillor Bob Brady, chairman of the four council steering groups, describes outer estates.

They receive "little in the way of government financial support, and suffer more deprivation than the already identified and funded inner-city areas", argues Brady.

The aim of the conference is to improve conditions on these estates and to try to secure more government aid.

The association's John Toomey said: "The Opera House has had years to raise money for

these improvements and yet it's done nothing. He said the Government gave the land — roughly 1 ha — to the ROH for cultural uses, not commercial development.

Toomey also said the proposals go against the Covent Garden Action Plan, a statutory document that restricts large-scale office development in the area.

The CGCA is also critical that no mention is made of a second auditorium, provision for the Royal Ballet School and housing accommodation for staff — all items, it says, which were originally deemed necessary. Demolition of listed buildings, including the Floral Hall, is also opposed.

A spokesman for the ROH said fundraising would begin only after planning consent has been given by Westminster council.

He said: "If we get planning permission and public support, on that platform we'll go to some very rich people." He indicated that homework on those people had already been carefully researched.

CGCA claims that the intention behind its appeal is to prove to the ROH that commercial development is unnecessary.

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# Roche joins RIBA battle

RAYMOND Andrews' presidential running mate Fred Roche has joined the electioneering campaign and outlined the RIBA's plans to reorganise the Institute.

He confirmed that the companies would be moving out of Portland Place within 12 months and that a new post of a second deputy secretary would be created to replace the post of director of public affairs following David Atwell's departure.

Roche recently came out in favour of Andrews arguing that

he, as the council's nomination to take over from Larry Rolland next summer, was the man to continue policies laid down by council since 1982.

Hackney has already said that major changes are on the way if he gets elected. He is particularly

keen on reversing plans to bring the Drawings Collection back to Portland Place, the reinstatement of John Harris at the RIBA, a new marketing plan for

architecture and new roles for the RIBA secretariat.

Roche admitted that some reorganisation was necessary for the institute if it was to remain effective over the coming decade but that this was not a radical plan.

Hackney is considered to be more extreme than Andrews and has promised radical changes which is what some pundits claim the RIBA needs.

Roche, the chairman of the RIBA's Public Affairs Committee, outlined achievements so far.

Plans to move the commercial companies out of Portland Place are well advanced. The building should be vacated within 12 months.

The executive is being strengthened by the creation of a new post of deputy secretary to complement the appointment of Brooks in 1984.

Plans to change Portland Place into an architecture centre are being implemented.

Additional resources have been provided for the regions and there are plans to increase

devolution of RIBA responsibilities to the regions.

A review of the educational curriculum is now underway and a policy for continued professional development is being implemented.

The RIBA has created its own professional indemnity insurance company with the income being ploughed back into education.

Roche also predicted that the Drawings Collection will return to Portland Place if the British Architectural Library Trust can raise the necessary finance.

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Work has just started on this 700sq m two-storey retail scheme in Colchester, designed by Burton Property Trust by Geoffrey Reid Associates, who were recently acquired by the McColl Wheatley Group. The clay roof tiles are handmade, while red and buff stock bricks with stone have been used to make sure the building blends in with the rest of Colchester's conservation area.

## New town profits

THE sale of property in new towns has pulled in more than £500 million for the Government.

The Commission for New Towns (CNT) says in its annual report that the remaining assets are worth £721 million — and this excludes the assets of Basildon Development Corporation, which were transferred to the CNT on April 1.

Total sales during the last financial year amounted to £93.7 million — almost £17 million over the target of £77 million — and a further £75 million's worth of sales have been agreed. In this financial year £20 million's worth have already been completed.

## 'Fact trip' council row

A ROW has broken out on Bracknell District Council after an architect competing to design a leisure pool organised a fact-finding trip to Germany for three councillors and four officers.

Some councillors were concerned that the trip was not authorised in advance by the finance committee, and one complained that the trip could be seen as an inducement. But Peter Sargent of Sargent & Potiradis was unrepentant. He pointed out that ratepayers had paid for the councillors' trip and said his practice usually organised fact-finding visits for both commercial and local authority clients.

# Traders to contest council go-ahead for market scheme

LEEDS City Council has given planning permission for the £90 million development of the city's Kirkgate market designed by Building Design Partnership.

But the Market Traders Association is to contest the decision in the High Court and is calling for a judicial review of the way the council reached its decision.

The council approved Dutch developer MAB's plans subject to more than 50 conditions including some design modifications.

But the traders have said they are totally dissatisfied with the manner in which planning applications had been processed.

Their solicitors claimed the proposed development constitutes a departure from the central business area development plan.

The council has warned that a judicial review of the proceedings could seriously delay the scheme.

MAB's scheme includes a

five-storey development with a new covered market hall adjoining the existing 1904 market, a new two-storey covered shopping mall with 143 units including

By Alan Thompson

two department stores and food court, multi-screen cinema, children's play area, covered bus station, parking for 2,000 cars and 1,450sq m of offices and ancillary development.

BDP's plans have gone through several revisions to accommodate public criticism of the

scheme since it was lodged with the council last summer.

Work is scheduled to start on site next year. The completion date is estimated to be 1992.

Also Burnet & Lyall have been invited by Leeds councillors to apply for planning permission for their plans to turn the Grade I listed Corn Exchange building into a shopping centre.

The controversial scheme for developers Specialty Shops will turn the 1860 Cuthbert Brockrick building into a 2,000sq m retail centre adjoining Kirkgate market.

## Cutting through red tape

THE East of England Branch of the Association of Conservation Officers is holding a one-day conference in Cambridge to look at ways of beating red tape that can ruin alterations and improvements to historic buildings.

"Is Parliament conspiring against the conservation

lobby?" asks the association.

For further details on the conference, to be held on Saturday, November 22 at St John's College, Cambridge, contact James Clifton, Wycombe district council (0494) 26100, or John Preston, Cambridgeshire County Council (223) 317616.

## Newcastle seals deal on Elswick scheme

HOLDER & Mathias plan to redevelop 28ha of vacant Elswick in Newcastle in a major retail, leisure and business complex looks like start on site next year.

The scheme's future has been in doubt since early last year when local construction company Brims pulled out of a funding agreement.

Newcastle City Council decided to act as financial backstop for the project.

Plans for the site on the site of the 1904 Elswick food store, along with 40,000sq m technology business centre and riverside village.

Separate negotiations under way to build a leisure centre together with 8,500-seat stadium, ice rink, football pitch.

Newcastle council is ecstatic about the development despite competition from own Eldon Square centre.

Senior councillors pointed out that the £1.8 million grants of £1.8 million already been spent on the workshops, looking at the kind which should have been elected to chair them:

## Infill

# Building on our communities

THE conference success story would not have happened if the initiative had remained within the RIBA. The Community Architecture Group had already determined that the event should take place elsewhere in order to underline the multi-disciplinary approach essential to much work in the field and so as not to antagonise key organisations known to be suspicious of the motives of a professional body.

The departure of the main conference to the Astoria Theatre under the glare of television lights provides CAG with an opportunity to reaffirm its position as a serious forum for discussion. On Saturday November 29, the group is hosting a number of workshops at the RIBA, the object of which is to consider some practical aspects of the issues raised at the main conference. The workshops will be recorded with a view to publication. They will be for delegates at "Building Communities" whose reaction to the packaged agenda is to want to keep talking, but they are also open to anyone else, and they are free. These are the six topics the workshops will tackle, introduced by the members of CAG who have elected to chair them:

**Large-scale community projects, chaired by Ben Derbyshire**

Most community projects are small and the largest ones tend to involve only one use, particularly housing. This workshop aims to explore the mechanisms that might permit the community living and working nearby to become involved in, and benefit more directly from, the major developments taking place in towns and cities. Issues such as mixed use, diversity, planning legislation, the ability of communities to organise, and the motives and constraints of developers will be discussed by people with real experience of the field who will be present to give their views.

**Architects as advocates, chaired by Ian Finlay**

Rapidly growing numbers of people are now wanting a say in how their local environment is shaped and an emerging number of architects are working with groups helping to provide the professional know-how and advice to back up their ideas.

In the past community groups have often been galvanised into action by the plans of local authorities which they oppose.

It has been shown that community architects and local people are able to work together to orchestrate a well-reasoned and articulate campaign, win over opposition and achieve results which see local wishes satisfied. Architects working in this way need new skills and the workshop will seek to examine what expertise is required.

Ian Finlay worked with Rod Hackney as job architect for the Black Road C/A No 2 in Macclesfield, Britain's second self-help housing scheme. Subsequently, as founder member of Design Co-operative, he has been involved in a variety of community based projects in Manchester. For the last five years he has been chairman of the RIBA Community Architecture Group.

**Can local authorities practice community architecture? chaired by Douglas Smith**

Many local authorities dismiss the practice of community architecture, either because they believe that their elected representatives effectively represent the community, or by contrast, because they believe that the community's needs can never be met within the local authorities' organisational and political frame-

**The RIBA's Community Architecture Group has organised a one-day seminar on November 29 to round off the "Building Communities" conference. Ben Derbyshire explains the background.**

work. Many authorities are nevertheless trying to improve their services or by employing consultant community architects.

The workshop will try to assess the value of these approaches, discuss the nature and value of tenant and user participation, how best to provide technical services, and how local authorities can support more community initiatives.

Douglas Smith worked for five years with the London Borough of Camden, spent one year researching at the Unit for Architectural Studies at UCL before working at the Terry Farrell Partnership. He now is a partner in Lazenby & Smith Architects where he has recently completed the community architecture project at Martlett Court, Covent Garden, for the City of Westminster.

**Rural communities — the forgotten areas, chaired by Robert Poynton**

Rural communities are under pressure on all fronts: housing, recreation, industry, services and transport. Against this context the workshop will confine itself to the question of building under the headings of housing, village halls and workshops, looking at the present situation and prospects for the future.

Robert Poynton is a partner of Poynton Bradbury Associates in St Ives, Cornwall. He has been involved in a number of job creation schemes, community centres and village halls.

**How should the RIBA respond to the problems of the inner cities? chaired by Pat Tindale**

This workshop provides a valuable opportunity for those involved in building communities to tell the RIBA what they think the profession should be doing about inner city problems. What can the RIBA learn from the experience of community architects?

Pat Tindale is a member of the RIBA's inner cities committee, having recently retired from the post of chief architect at the DoB, where she was very involved with government initiatives such as the Community Projects Fund and architectural workshops.

**Architectural education must respond to a changing environment, chaired by Robin Nicholson**

The growth of community action requires more and more appropriately trained architects. The enabling architect may be the principal designer or may provide technical aid, working with the users and other professionals.

Coupled with the present low standard of architectural product, it seems that change in our schools is needed urgently.

The workshop will try to draw on past experience and put together a programme for the future. Robin Nicholson worked with Ted Cullinan and Mungo Smith to develop the Lambeth Community Care Centre in an extensive programme of consultative design. He has taught in several schools and explored a number of community projects.

**Building Communities tickets from CAGS, 5 Dryden Street, Covent Garden, London WC2E 9BW, 01-240 2430. Details of the CAG workshops are available from Stella Yarrow, Community Architecture Office, RIBA, 66 Portland Place, London W1N 4AD, 01-580 5533.**

## Charles gets it right

WHEN the future King of England made his notorious speech at Hampton Court during the Festival of Architecture, our verdict was: two cheers for the Prince. As far as his views on the inner city versus green belt are concerned, the verdict must be: three cheers. The Government has already expressed concern about the impact of major new shopping centre proposals in green belt areas; so far it has studiously avoided making any similar comment about residential development, of which half a dozen of massive scale have recently been announced in the South-east. Mr Ridley seems to be on the side of the laissez-faire developers, Mr Waldegrave making the running for the green/country landowners lobby. Those who oppose green belt development make strange bedfellows, but they are powerful. They represent the mythic tradition of the Englishman being a countryman at heart — kill the country-

side and you kill the nation. When you look at the steady growth of suburban development into the countryside round London, you could imagine that this has already happened. From Southend to Reading it is development all the way.

Of course there are powerful forces in favour of out-of-town development. On the one hand there is the housebuilding lobby itself, which has logical reasons for its belief that the only way it can operate economically is to get outside cities, with their problems of scale, access, planning and land price. These commercial factors are then reinforced by people like the Town & Country Planning Association, whose dislike (perhaps fear) of what cities represent has kept them busy encouraging the withdrawal of the lifeblood of London, in particular, for decades. And finally there are those politicians who regard planning itself as a trick played upon the poor, to make sure

## The Editor's Comment



that it is only the wealthy who can afford to live in the country. Hence the burning of "second homes" in Wales.

But there are compelling arguments in favour of inner city development which are supported by the housebuilders themselves — and if the Prince of Wales is to be criticised it is over his failure to congratulate a number of builders, such as Barratt and Lovell, for the pioneering work they are doing in deprived urban areas. People will choose to live in the city if the housing is decent, available, and affordable. This is not something that can be brought about by house-builders alone. The Prince's real message was not to the builders, but to the politicians.

## REMINDER

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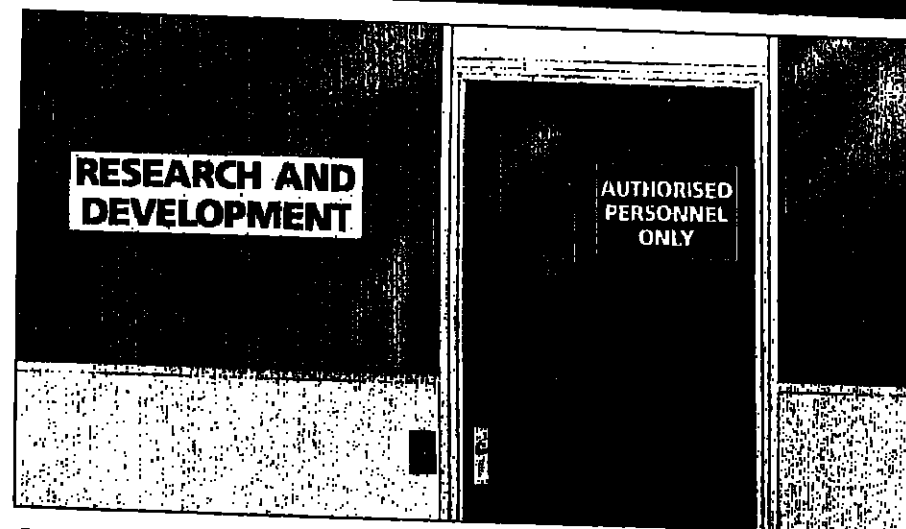
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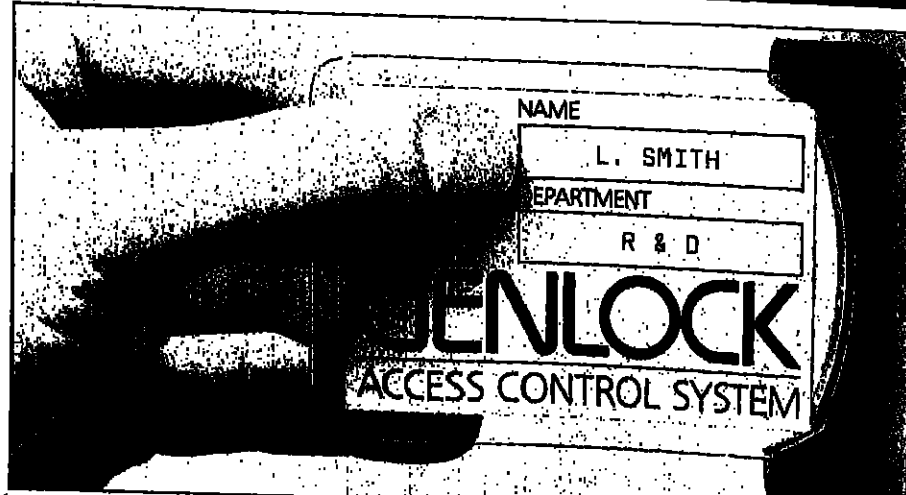
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## Garden treatment

COVENT Garden, London's upwardly mobile shopping area, is the last place one expects to find crumbling tenement blocks.

Holland and Thurston Dwellings, built in 1855 by the Central London Dwellings Improvement Company — a rival to the more famous Peabody Dwellings — lie tucked behind Drury Lane, one of Covent Garden's main thoroughfares.

When Covent Garden practice CGHP landed the job of refurbishing the two blocks, funded by a local housing association, they found that nearly all the one-room flats lacked bathrooms, kitchens and adequate heating.

The main task, therefore, was to find extra space for new facilities.

Given an open brief, with a budget of roughly £1 million, the most radical change involved transforming landing to balconies, and knocking out the stairs in Holland.

A new lift and stairs were put into the void between the blocks, and to improve security the entrance to Holland was switched to the back of the building and entry phones were installed.

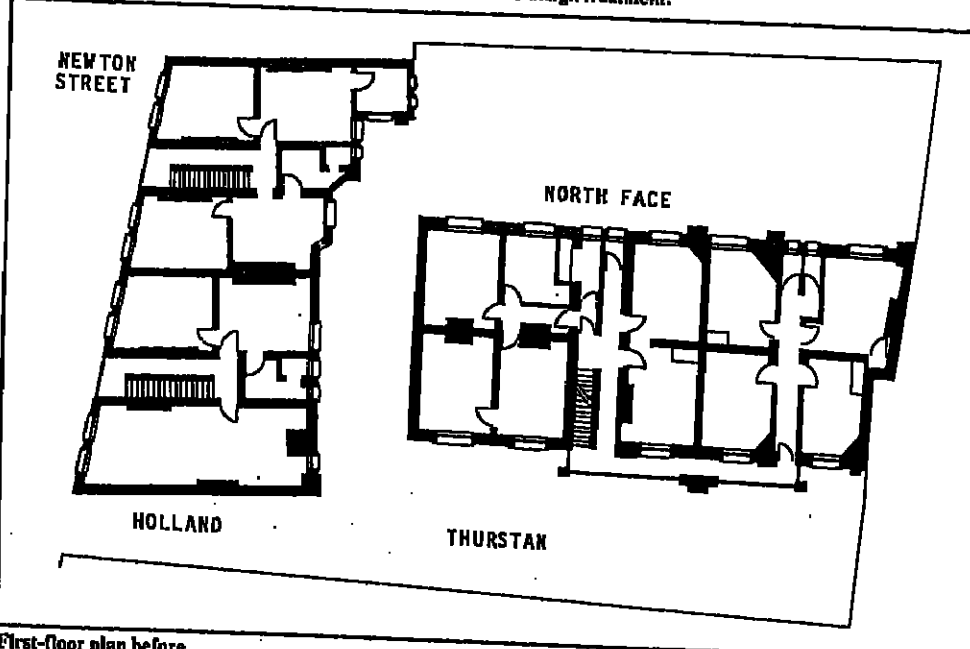
Both blocks now have access to the tightly arranged garden on top of Thurston, providing a total space of 240sq m.

By building Holland's roof up one storey at one end and two the other, an extra floor was created, topped by a low maintenance, pitched aluminium roof.

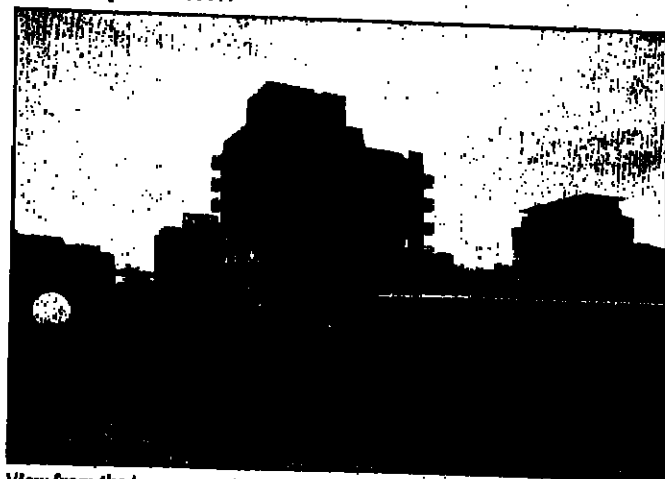
Amanda Ballieux

Architects: CGHP Architects (Covent Garden Housing Project).  
Engineers: RT Hume & Partners.  
Quantity surveyors: Nigel Rose & Partners.  
Contractors: Elliot Leyford.  
Consultants: Energy Conscious Design.  
Client: St Pancras Housing Association for Islington & Shore-ditch Housing Association.

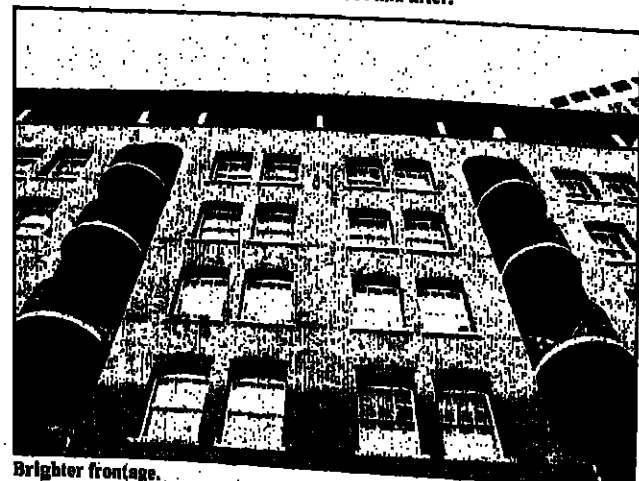
The two blocks after design treatment.



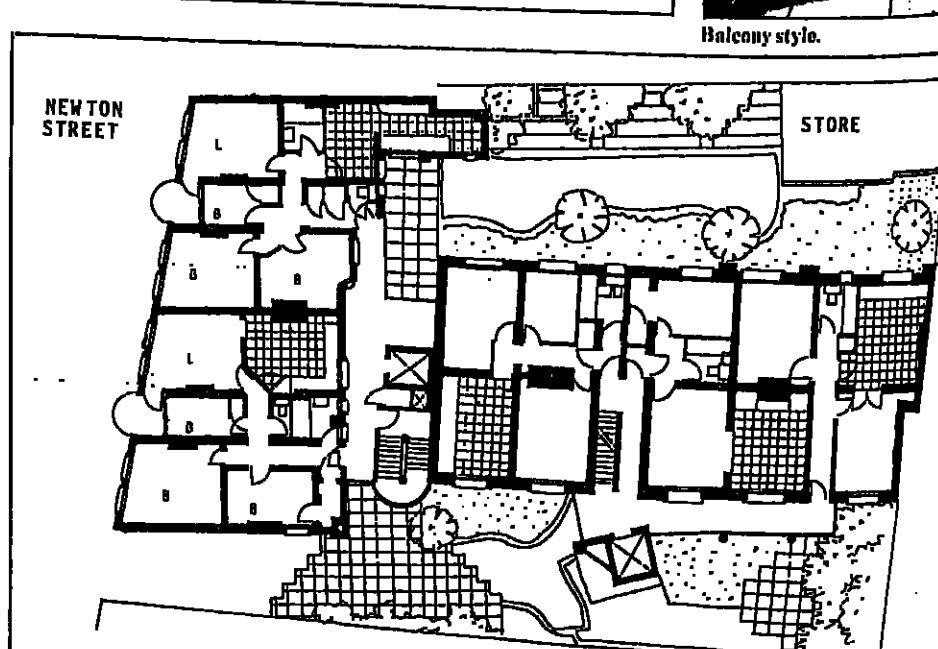
First-floor plan before...



View from the top.



Brighter frontage.



... and after.



Rooftop addition.

Balcony style.



Before...

## Scorpio



### Public relations in the semi-darkness

THE Architectural Press, and in particular cherubic Georgian features editor Dan Cruickshank, have gone into PR. Looking round for a suitable venue to launch Leon Krier's masterplan for the redevelopment of Spitalfields Market, developer Stuart Lipton chose the semi-darkness of the AP's basement.

But he should have known better than to hire Cruickshank as his front-man. Not only did his attempt to preclude *Scorpio* from proceedings badly misfire, he appeared equally inept at dealing with a crowd.

Packed into the "billiard room" the hacks who managed to gatecrash their way in, the AP mafia, plus the odd celebrity like my old friend Gavin Stamp, spent an uncomfortable 40 minutes trying to see the great Leon deliver the goods by the light of a dozen guttering candles. The few chairs that were provided were taken by AP staff who seemed to be under the impression that the whole event was some kind of private party. (How different from the last national press conference called by Young Dan at AP — attended by two people.)

Clutching a glass of Valpolicella in one hand and the "masterplan" in the other (was it really on recycled paper?) the benevolent Lipton explained why Leon was a genius. "It's a clear case of money versus architecture," said the friendly developer, repeating his remark at the RA that had appeared in these very pages only three weeks ago.

Usual considerations, like how much money Rosehaugh Stanhope could expect to make from Spitalfields, were not points on which he wished to dwell.

Cruickshank did manage to attract enough attention to inform us that the conference was at an end. We were all ordered to the bar so we could drink more disgusting wine from glasses which looked as though they hadn't been cleaned since Spitalfields was built, but as any chance of meaningful debate had been hijacked by a Georgian swap-shop in one corner, Scorpio beat a hasty retreat, vowing never to return.

### Strangers on a train

IT is a year since the notorious incident of Rod Hackney's interview to a journalist on a train, allegedly breaking confidences of the Prince of Wales. This became a nine-day wonder, with all sorts of speculation about the Prince's architectural guru, and how Hackney would never be trusted again etc etc.

As Scorpio pointed out at the time, Hackney had operated as a stalking horse for the Prince, getting any flak that was going, and introducing the Prince's ideas on the inner city to the public stage.

Those ideas remain, as witness the inner city versus green belt speech he gave the other week. And his attendance at the opening of various Hackney community schemes demonstrate there has been no breach between them.

But there is another intriguing

aspect to the story which has not been remarked on — up to now. It is that on board the said train was a television crew. Why was no report ever shown? Because it would have confirmed the fact that the event was organised, in advance, ie with the knowledge and consent of the Prince.

Could this have been the start of that special relationship enjoyed by certain TV news company — which has given it so much exclusive Royal material and has made a fortune for one of its current newscasters and royal interviewers?

### Caring profession

THE latest copy of the RIBA's official union magazine carries a stern warning about the dangers of Aids. Institute employees and visitors to Portland Place are told on how to prevent the killer disease (no sex, no drugs) in an exceedingly frank way. What a pity the institute can't inject the same honesty into its current thinking on nuclear power.

The warning follows a memo sent round the institute last year, advising staff about the dangers of door knobs — which were all doused with disinfectant.

### Hitting the heights

TUNE into Channel 4 on Thursday for a 52-minute dose of "Skyscraper", a behind-the-scenes look at some of the world's tallest buildings and the men who made them.

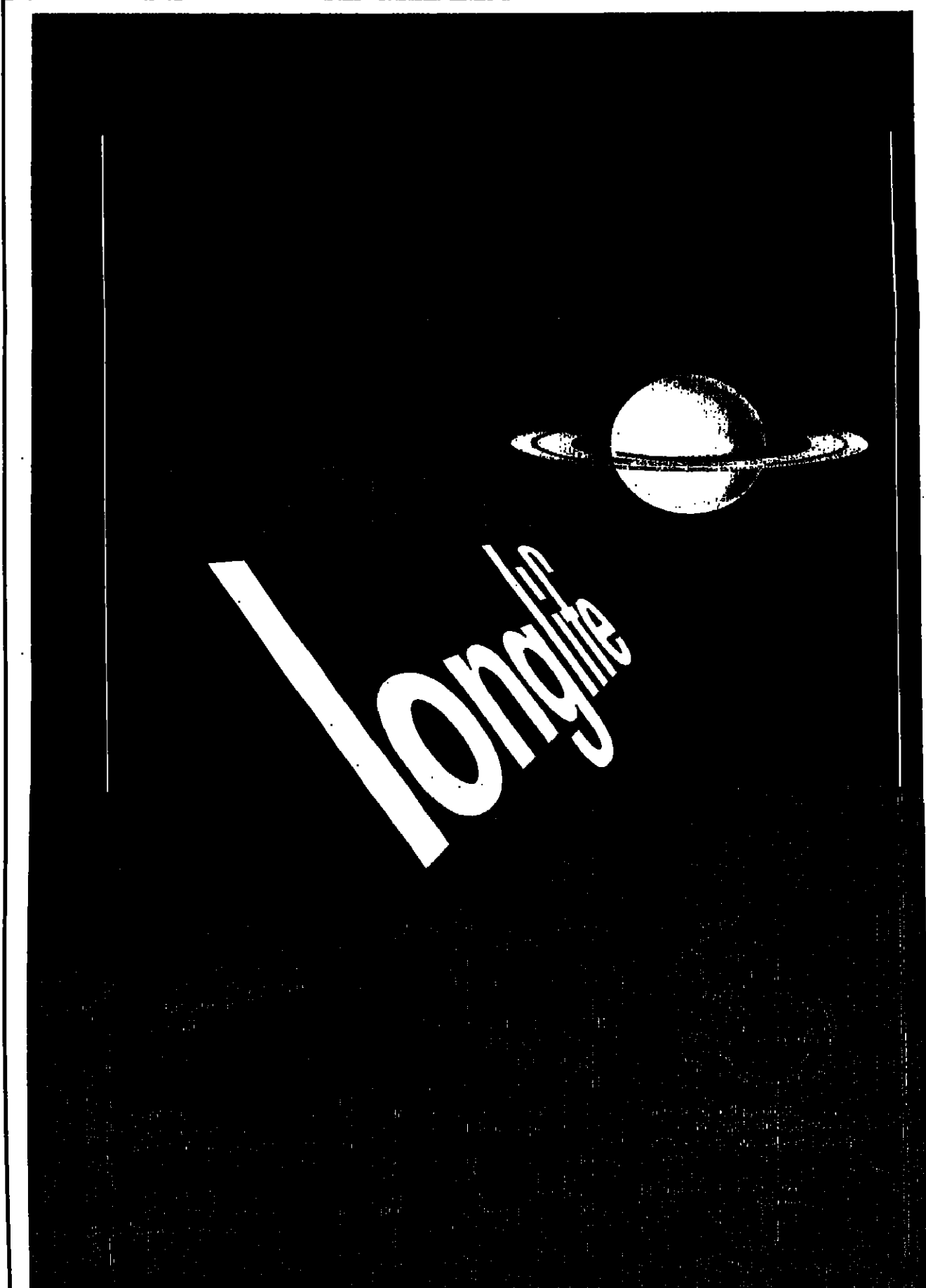
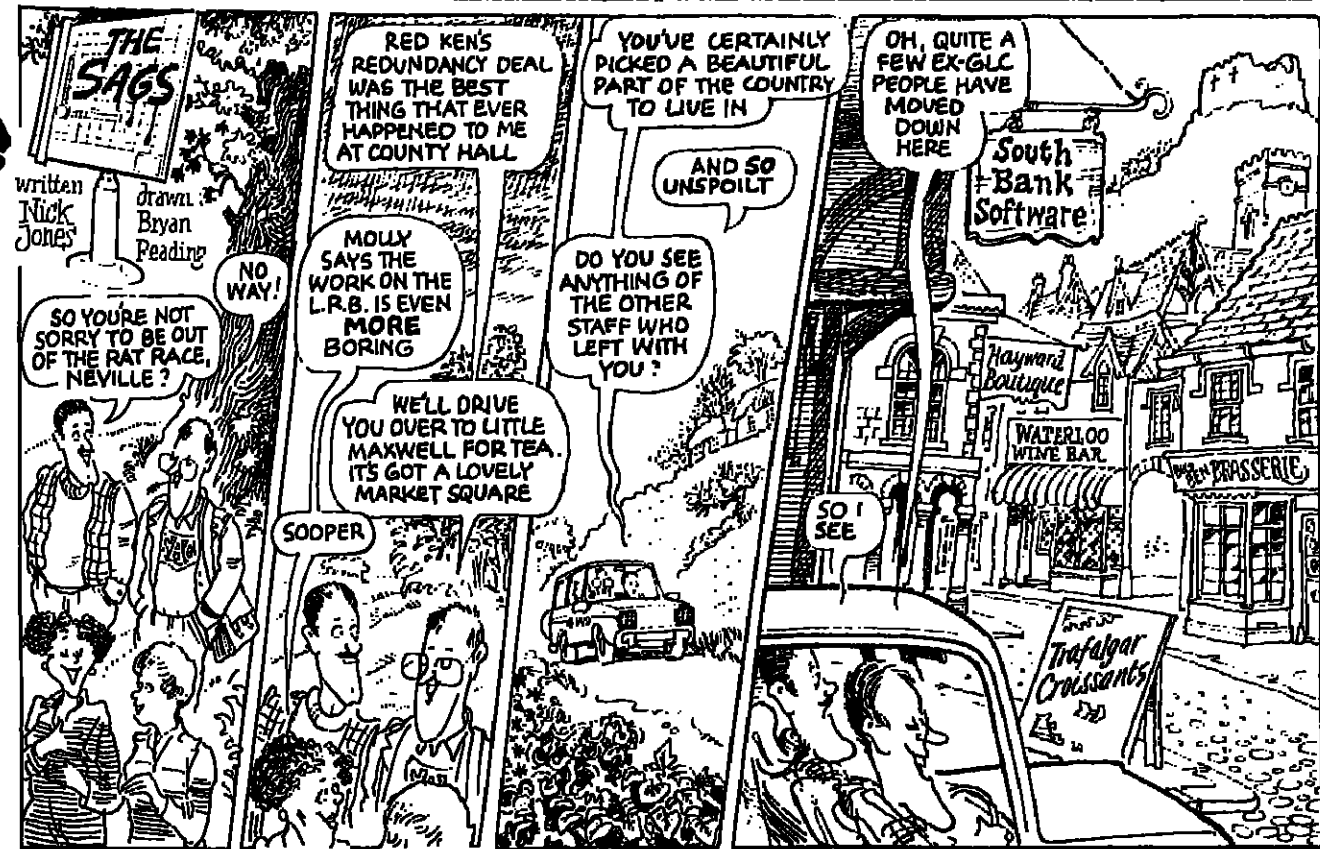
Promised highlights include how a London man built a model of Manhattan in his Fulham living-room, why Chicago architect Stanley Tigerman classifies skyscrapers as circumscribed or uncircumscribed according to their shape up top, and latest plans to trump the world's tallest building, Sears Tower, by one twice as high.

SCORPIO's early tip for next year's Royal Gold Medal — Geoffrey Bawa, the Sri Lankan who had an exhibition at the Institute earlier this year.

### 10 years ago

ENVIRONMENT chief Peter Shore is meeting representatives from Ashford council and the GLC over renewed fire fears in connection with polyurethane board ceilings. This follows a mammoth and critical report by Ashford's chief architect, Alnn Parnell. He has also been instructed to look at the structural stability of all timber-framed housing in the borough. *Building Design*, October 29, 1976.

## Statistics



## Letters

## Why I'm backing Hackney for president



From David Rock  
MANY people have asked why I support Rod Hackney in his presidential bid, and what "running mate" means? I see the reasons very clearly, but understand the questioning.

At this time the RIBA needs a radical lead to examine and change its attitudes, its *modus operandi*. The RIBA's present

size and cumbersome organisation, with external pressures on the profession's position and the architect's role, demand a larger-than-life person to transform a defensive institute into a progressive one. Most presidents since 1970 have recognised that big changes are necessary, but have been thwarted by the organisational power-structure. Even Owen Luder, considered by many too brash and PR-conscious for the job, yet who successfully contested the RIBA Council's nomination, found it difficult to effect change.

Independent thorns in the side of authority become effective when given responsibility. The outspoken rebel is often the better, stronger person on assuming leadership, while the safe, respectable one becomes dull and over-worked and retreats into his/her shell.

The RIBA presidential job profile calls for:

● Confidence-man and mem-

bership-enthusiast, sensitive to the needs of architects and practices throughout the country (not just the affluent South), and abroad. Attitude is all-important. It demands attack, and awareness of architects' potential, which is to expand and change and re-colonise areas lost to us. Hackney, like me, advocates wider roles and skills — roles which require more, not fewer, architects to match change in social and business environments.

The profession must decide — does it wish to become the construction industry's "design department"? Or does it want to reshape our role and regain a degree of control and leadership? Hackney has practical knowledge of enabling, funding, development of "creating" work from problems as project initiator, and in partnerships between public and private sectors, and he is strongly aware of both commercial problems and fundamental shifts taking

place within the construction industry.

● Initiator of new RIBA policy. This has degenerated as successive presidents became massively involved in executive detail. A ruthless hand is needed to stem and change the flow of on-going business through the RIBA machine. Too much is self-generated and unimportant. RIBA business often depends upon what the secretariat thinks architects are concerned about resulting, with few architects on the staff, in an outdated image and priorities.

Hackney is uncompromising in his handling of change — some would say vicious — because he goes single-mindedly for what is needed. He is efficient — delegates confidently and well — yet always seems to be available. He is awesomely direct and honest in contrast to present RIBA reactive, inactive, sweep-it-under-the-carpet, behind-the-scenes wheeling and dealing which presently frus-

trates the membership.

● A strong, respected, and fearless voice in political circles, gaining the ear of those at the top. Hackney is well-connected politically, internationally, and with top government and other influential persons and adept in his dealings with them. This year he spoke at all four party conferences.

● A public voice for RIBA and the membership. Confident, forthright opinions from the president are important. Hackney is a powerful, logical, frequently charismatic speaker. A public voice requires media-awareness and ability to use it. Hackney sees the media as ally, not enemy: he makes himself available, is quick on his feet, plans ahead and takes the initiative in media terms — a vital approach, and why he gets so much publicity.

Different times require different priorities in the presidential profile. Right now I believe, as does Hackney, that RIBA top management, with diffuse lines of responsibility and tired seniors, needs reorganisation. Reorganisation need not be destructive, but must be accomplished quickly and firmly, to release creativity. I see the parallel with the RIBA "revolution" of 1958 when the institute was forced to change to meet membership needs.

I am aware of criticisms directed at Hackney:

● That he cannot simultaneously be RIBA and UIA president. Well, Robert Matthew combined both roles to spectacular effect. Hackney, already UIA first-vice-president for Europe, knows the score. The UIA presidency, were he elected, takes relatively little time and could be combined with some RIBA duties overseas, currently more time-consuming than those of UIA. On visits abroad, whether on RIBA and/or UIA business, Hackney would have elected vice-presidents and other senior advisers — myself presumably included — who could shoulder wider responsibility.

● That he is "only a community architect". There are many interpretations of "community architecture". Some have reduced it to something small and narrow, too easily used as a tag. It could be called urban and

economic regeneration, dealing with real-estate, problems and general commissions, which Hackney's view and me, architects, especially in practice, are common: architects without the money himself has no million pound scheme, not just Black the chief.

● That he is only himself and the reputation gained by his media coverage of issues beyond his practice. I want this harnessed to the RIBA. Had Ray Cecil, something of Hackney's, been council's would have supported Raymond Andrews — whom almost two-thirds of council did not vote pleasant, careful, go-to time to prepare. Hackney would enjoy being in, but, supported by his hierarchy (Roland K. Harrison) he will go the system.

Change is uncomfortable change is needed. Later born of its time Hackney recognises this. I see Hackney this time, as or someone like him.

I have been singularly Hackney's supporters — list includes Peter Cook, Gosling, RIAS president, Lane, Cedric Price, Casson, BDP chairman, Scott, Bob Maguire, Darke, Richard Rogers, others equally influential. Hackney has called "running-mate". This indicates the value attaches not only to experience of working with him, but also to the position and determination for change for which members elected him. These he wishes to harness as elected president, wish to contribute.

I hope that all RIBA members, whatever their age, will vote. I'd rather see papers — showing the about the institute, if either of the candidates the usual 25 per cent poll. David Rock London W1

## Going underground

From Peter Southgate  
I WOULD like to thank those who wrote or have spoken to me about my letter of October 10 on the benefits of earth-sheltering.

Earth-sheltering has really taken off in America and has now been used for recreational, educational and housing purposes with great success. One of the most dramatic modern structures in the world is the Moscone Centre where a 2.6ha column-free exhibition hall is located under 22m of soil at a future part in San Francisco.

The British Earth Sheltering Association is a ginger group founded in 1983 to promote the beneficial way of providing accommodation. BESA produces a news letter three times a year and acts as an information network to link all those interested in earth-sheltering. Anyone wanting further information should write (with sae) to BESA, c/o Department of Architecture & Planning, Liverpool Polytechnic, 98 Mount Pleasant, Liverpool L3 5UZ. Peter Southgate

## The voice of the institute

From Clifford Lansley  
HAS the RIBA got it wrong BD trying to build a house over a very dubious news? I cannot believe the RIBA can be at odds with contents of Prince Charles' speech last week about cities, the green belt and cities. It is inconceivable that the RIBA could be anything supportive of the government of his speech.

I trust that the RIBA will see the opportunity at its council meeting to put right the impression that your article given. If, however, you are wrong about the RIBA's on the obsessive concern by builders on the green belt, I would wish to be associated with your view. What a pitiful disincentive has been given. David Atwell to justify his view is really that the RIBA, God help the profession, Clifford Lansley Berkhamsted

## The lowly lot of engineers

From Miles Scott  
I READ with interest Professor Hapgood's inaugural address as president of the Institute of Structural Engineers (October 10). Hapgood bemoans the low status of engineers vis à vis architects, citing the number of architectural knight-hoods. He also deplores the valuing of art above technology, blaming this on England's class system.

Attractive as all this may be, it is, while containing some germs of truth, in fact a simplistic caricature. The valuation of things artistic as superior to things technical goes back to the time of the ancient Greeks who despised the practical arts, which they categorised as "banalistic". Thus in Classical culture, anything to do with trades was banalistic, and this was something transmitted through Classical education. In these matters it is more interesting to note what people do, rather than what they say. The great Brunel did not direct his two sons into engineering, but sent them to Harrow for a Classical education.

The lack of proper training and the low status of engineers was a topic of discussion in 1818, when the Institution of Civil Engineers was founded, and in the letter of invitation to Telford to be first president in 1820, the organisers bemoaned the fact that "engineering in England is taught only as a trade".

From Playfair in 1852 right up to Finlinton in 1980, official reports have lamented the state of engineers' education. A Leicester Polytechnic report "Engineers — servants or savants?" (1983) found engineering degrees to be "both technically narrow and narrowly technical".

It is therefore not difficult to see why the "bullshit" industries of the 80s which Hapgood disparages are more attractive than engineering. There is a cultural problem (rather than a class problem — all classes are interested in money now as a priority) and flowing from these two, a salary problem. Salary levels for graduate engineers were appallingly low long before the "Big Bang" — developments in the City are irrelevant, though a convenient whipping boy.

Although we have been told for years by successive governments that there is a dire shortage of engineers, there is little evidence of the classic sign of a shortage — rise in salary levels. This may perhaps be explained by one engineering graduate quoted in the Leicester Poly report: "I wonder why I went to university. They hire ONCs to do this work."

Hapgood also bemoans the high priority given to the visual by other design professionals, including architecture. But he himself wrote, in a BD book review (August 11, 1979) that architecture was quite different from engineering and stated that "architecture exists to provide visual cultural continuity". The primacy of the visual is axiomatic if this definition is accepted. The dimension of cultural performance (artistic dimension) gives architecture its high status in society. Society has elite artistic institutions wherein architects have found a niche, eg the Royal Academy. The scientists have the Royal Society. Unfortunately, for the engineers there is no equivalent of RA or FRS to provide a stepping-stone to further prefer-

ment in the form of knight-hoods, which Hapgood seems to value highly as an index.

Whereas architecture is a suitable profession for a Royal Duke (Gloucester), engineering has yet to attain that distinction. To blame the money-grubbers in the City, and the Big Bang for somehow contributing to the lowly lot of the engineer is, I think, naive.

In any case, contrary to what Hapgood seems to think, the economics correspondent of *The Guardian*, Christopher Huhne, thinks that the Big Bang "could lead to a substantial improvement in the performance of the rest of the economy". Miles Scott London SW7

## Emperor's clothes

From H I Meyer  
IT is peculiarly sad to see Professor Broadbent (October 24) resorting to an academic version of the Portsmouth Defence, or old Rumpole's rule of argument: "When own case weak, abuse opposing advocate."

Of course I did not miss the professor's point, equating West and East as both using Classicism. I thoroughly accepted the point by a very pregnant silence on the matter. To paraphrase Dr Goebbels, I believe that the state-fascism of capitalism is no different and no better and no worse than the state-fascism of communism.

That is not what the quarrel is about. The point is which style of architecture is required for a healthy society. I suggest it is neither Classical nor Modern, but Organic.

Philip Johnson, when embracing the International Style on the whole from 1930 until 1970, is the same Classical Johnson who can embrace "Chippendale" post-modernism in the 1980s. Plus ça change plus c'est la même chose.

Frank Lloyd Wright is no more a Classical architect when he adds ornament to his buildings than when Louis Sullivan did to his own Wainwright building or Guaranty buildings. Indeed John Ruskin wrote volumes to prove that Classicism and true ornament are anathema to each other. What John Ruskin labelled "Gothic" I like to classify by the Wrightian name organic but, whether Gothic or organic, Ruskin summed it up for all time in *Stones of Venice*:

"In the new precision and accurate law of the classical forms... (the world)... perceived something peculiarly adapted to the setting forth of state in an appalling manner: Princes delighted in it, and courtiers. The Gothic was good for God's worship, but this was good for man's worship. The gothic had fellowship with all hearts, and was universal, like nature: it could frame a temple for the prayer of nations, or shrink into the poor man's winding stair. But here was an architecture that would not shrink, that had in it no submission, no mercy. The proud princes and lords rejoiced in it. It was full of insult to the poor in its every line."

Broadbent may be stunned by Krier working for SOM. Why so? A multi-national firm like SOM must use the flavour of the month. Right now that appears

## Letters

to be more overtly Classical than previously but it does not justify either SOM, Krier or Broadbent in saying that Classicism is the only true architecture.

In fact, all false architecture is Classic, whether in the Lever Building, the Great Wall of China, the Moscow University or the Washington Pentagon. I do not react with violence, I merely point out that whether red or black, the emperor's clothes are a sham.

H I Meyer London SW6

## Destructive attitude

From James Williams  
THE Group of Eight must go, says Hackney. But it won't. It will simply go on, without Hackney and regrettably without the RIBA.

Those who ever served on the Junior Liaison Organisation, that pressure group of the younger generation within the building industry promoting close collaboration between the design and building teams, will recall the organisation's banner

of the old days — "A single voice for the building industry". Of all the professional institutes sponsoring the group, only the RIBA protested. Finally they sent along a new council member, Raymond Andrews, to find out what it was all about. Convinced of its views, he obtained for the JLO the support it needed. The JLO's campaign was helpful to Hugh Wilson in forming the president's committee for the urban environment out of which, in due course, the Group of Eight was born.

RIBA presidents have always led and chaired the group, the institute provides secretarial backup; the work it does, unnewsworthy as it may be, is always relevant. And that is the essence of real effect. In an industry so easily divided, we are lucky to have it — our single voice.

Prior to his presidency, Owen Luder was known to have doubts about the group. They were never so discourteously expressed and he went on to lead the group in one of its most important encounters — that with Mrs Thatcher.

On this occasion, grasping in

his hunger for self-promotion at every possible point upon which he can press an opposing view, Hackney is displaying the indiscretion for which he is increasingly known. His abrasive attitude would be offensive to the other members of the group, intolerable and destructive. In this respect at least, Hackney's win would be the profession's loss.

James Williams London W1

## Election fodder

From Peter Melvin  
I DO not find the process of electioneering for the presidency of the RIBA a productive or informative exercise, and in the case of the present occasion it is likely to damage the ability of the institute to weather the storms of change that will undoubtedly shake the profession to the bottom of its foundations.

The obvious conclusion, in reading Rod Hackney's manifesto, is that he is using the problems facing the institute as

election fodder without offering any solutions.

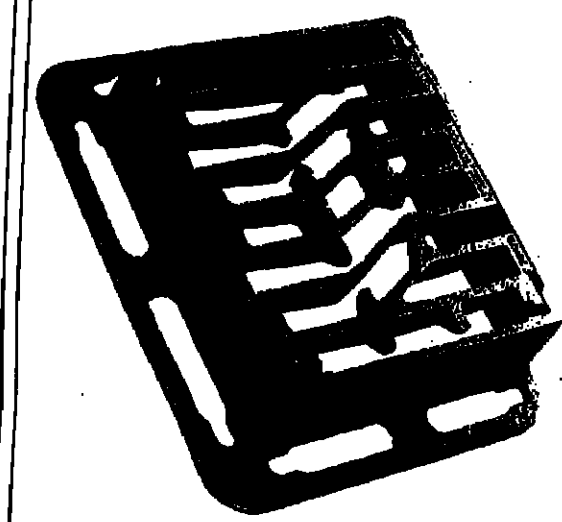
There is much that I and other members would agree with, but to imply that they can be solved by one man is ridiculous and completely denies the collective responsibility of RIBA Council and the various committees who are elected as part of the democratic process.

Change is undoubtedly needed and is also undoubtedly under way. Stability is also needed and never more so than in effecting change, but statesmanship is also a quality that is pretty useful at this time.

Peter Melvin Berkhamsted Herts

## Letters to the editor

Letters should be typed double-spaced on one side of the sheet and sent to: The Editor, *Building Design*, 30 Caledonian Street, London SE18 6QL. We reserve the right to cut or amend correspondence.



## The Slide Rule for Heavyweight Covers - Valiant.

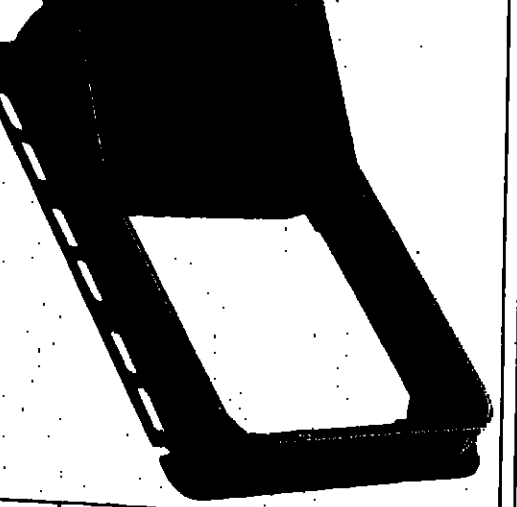
If you're measuring up to install heavy duty covers, just stop and think of the workers.

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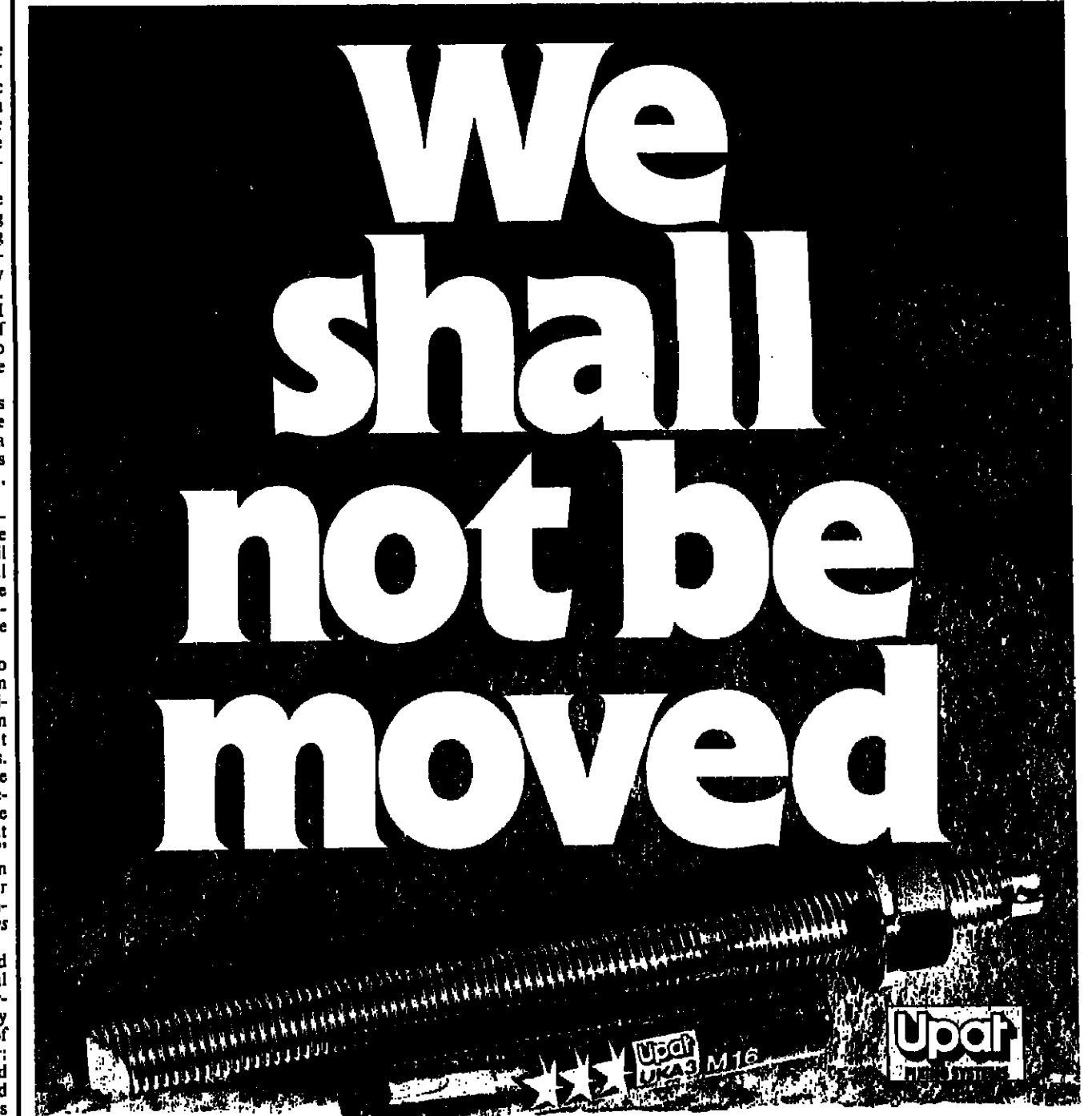
## Casting a new look in Gully Grates - Aqualok.

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## Overseas notes

## A picture of health

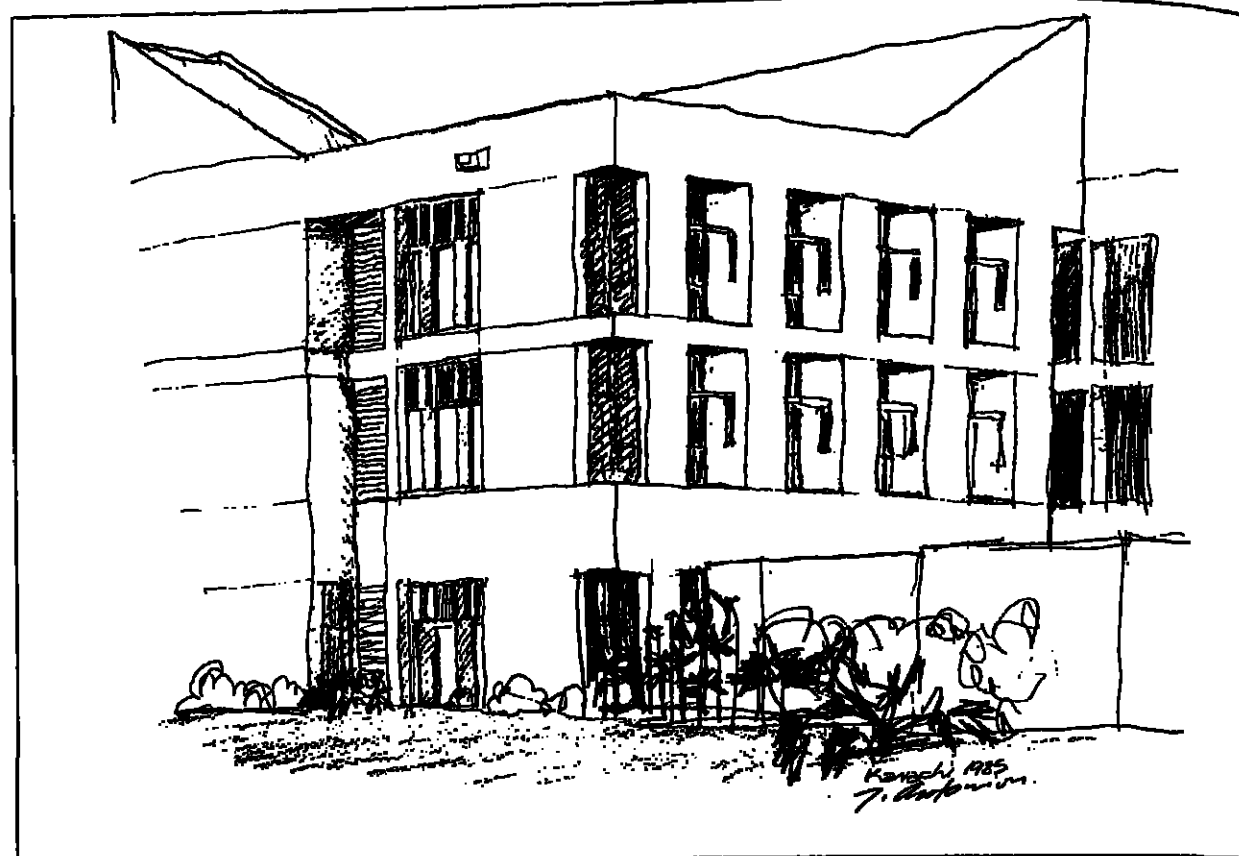


Jim Antoniou

TO take a trip to almost any one of the wealthy states in the Middle East is to be confronted with a panorama

of architectural banalities. At best, what has been created is a stark environment of efficient highways and modern structures based on the latest construction techniques, built at tremendous capital cost, in defiance of climate, terrain and human scale.

The result has been an architecture based on misconception. Stand on any street corner and look to one side and you will see the work of Arab architects who have strived to create their own mediocre version of Western architecture; look to the other side and you will see buildings designed by ill-informed Western architects which only they recognise as having Islamic qualities.



In reality, both groups have failed miserably, egged on by a pathetically ill-informed bunch of clients. Of the billions of dollars spent on development it is doubtful if more than 100 buildings with any sense of architectural quality are worth recording for the next generation.

Ironically, with the exception of Iran and Iraq, it is the poor countries in the region which are rich in the Islamic architectural heritage and it is the wealthy states which find themselves in search of an architectural language to fit buildings into their surroundings. It is not surprising, therefore, that in desperation architects working in Kuwait and Qatar have given themselves no other alternative than borrowing cut-out motifs associated with royal courts of a bygone age in far-flung places such as Cairo and Fez.

Consequently, a once-in-a-millennium opportunity has been lost to create an architecture worthy of the resources available to small but wealthy communities. To achieve an architecture of innovative forms while still applying the principles of a regional architecture in the 20th century requires time and a rare combination of a well-prepared brief with a sensitive approach to design.

To find such an approach, one has to look for a rich client outside the rapid development of wealthy countries. One example with these qualities is the new Aga Khan University Hospital in Karachi, now in operation for almost a year.

A hospital complex with almost 100,000sq m of site area may be small by recent Middle Eastern scales of development, but it does set environmental standards which are relevant to many Muslim countries, especially those which until recently have been boasting of their spending power. Here, a strong emphasis has been placed on the provision of health facilities, coupled with a desire to plan and build a new institution in a self-generating setting.

The design team of Payette Associates of Boston (with Mozhah Khadem as consultant) took time to study the architectural history of Islam in order to interpret it into a modern but dignified complex. A basic problem of construction in Third World countries is that

builders used to traditional methods are ignorant of modern techniques, while modern architects and their contractors are ill-informed about traditional building methods.

In this instance, the design with the main contractor, the Lope Colls Cementation Overseas, has managed to make many traditional Islamic architectural features in the region have been neglected in the pursuit of international styles (eg the interlocking interior spaces, courtyard, careful landscaping, all designed as an integrated environment). A variety of indigenous environmental control methods have been incorporated to improve the comfort and appearance of the buildings.

For example, windcatchers on the roof pattern and the use of windows in walls avoid direct sunlight, reduce heat and allow for cross ventilation. Textured wall surfaces subdue colours of built materials further lessen the absorption of the building's high level of integration between the interior and exterior has been achieved by the use of tiles, ornamental metal calligraphy, wood and plaster work, rugs and fabrics.

This kind of approach to architecture can sometimes have additional advantages, at least by providing opportunities to develop and maintain a variety of crafts and skills: use of local materials. Additionally, such carefully planned agglomerations can have a beneficial impact on future development in the surrounding areas.

How flexible the system adopted for growth and expansion remains to be seen. At some departments have reached the limit of their spatial arrangements. But a more basic question is: how can medical students being trained in these and pleasant settings, working in the slums of Karachi and the poor rural areas of the countryside?

I doubt if anyone associated with the complex would do that the last word has been said on hospital design in this part of the world. Whether this complex of buildings is designed for prestige, rather than efficiency, only use and time will tell.

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# GRANDEUR IN THE SUBURBS

Former Grunt Group member and RCA tutor Ed Jones left London in 1982 when he won a competition in Canada with Michael Kirkland. Robert Harbison visited the site.

THOUGH Mississauga isn't New Delhi or Chandigarh, those schemes of Lutyens and Le Corbusier seem the right places to begin considering the ambitious new city hall which is being built in Canada after a widely publicised competition (246 entries) won by Ed Jones and Michael Kirkland in 1982.

Encouraged by the brief, they came up with a symbolical edifice or series of architectural events which is far more

than another public building. It has been appropriately called erudite and witty. It goes further than any other sizeable structure I am aware of (leaving aside Jokey fountains or out-turning up in a new mocking style as far afield as Siena, Barcelona, Washington and Toronto) in trusting ideas to carry the building, so that many of the elements are showing something long before one recognises that they are also doing something. Or perhaps it is that the building's scale and the

wide spaces around it allow it to send messages to the viewer long before he reaches it.

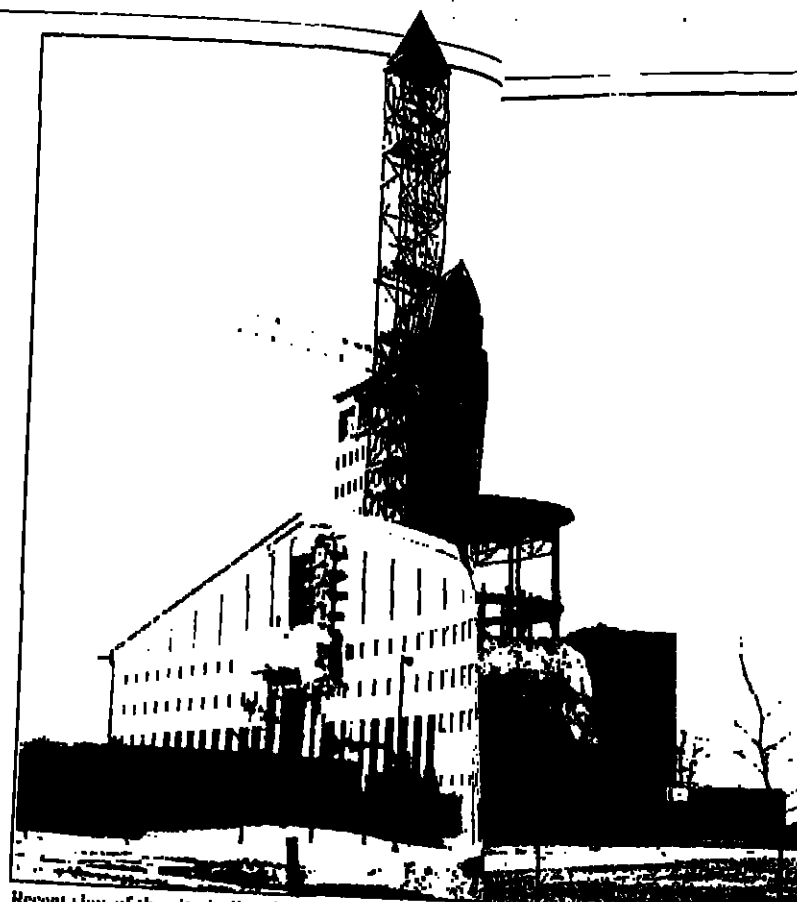
The key question is probably not how a building like this could be invented at present, but how it could come to be built. There is a wonderful (and how specifically Canadian?) confidence in man's ordering power in this design and its acceptance.

Everything depends on the place where it is going up. Now it is never safe to call any part of the earth truly awful, especially on an acquaintance as short as

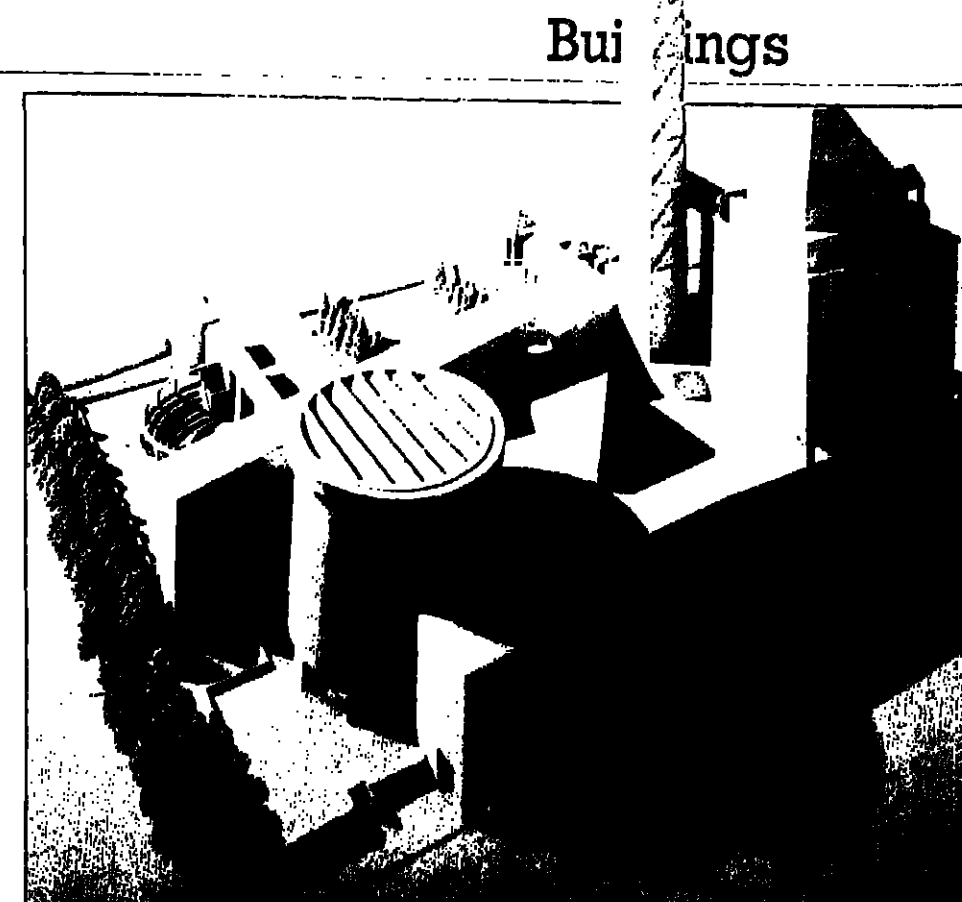
mine with Mississauga. But in a two-hour visit last spring I found it about as bleak as suburban wastelands can be.

The plain north of Lake Ontario is not one of the world's remarkable landscapes, but when one finds it in something like the state of nature, it has a kind of a charm like a desert; even in April the colours tend towards a funny grey, lurking beneath the surface not only in building materials but in scrubby grassland and bits of wood.

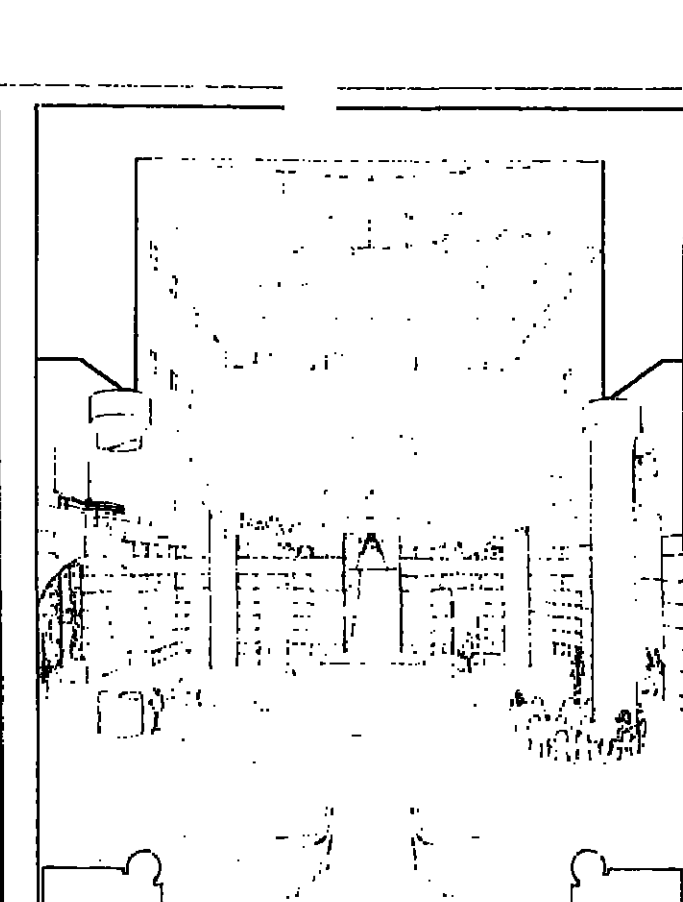
Mississauga is near enough to Toronto to be thoroughly



Recent view of the city hall under construction.



Rear view of model showing missing; Jim Stirling was a juror on the competition.



Perspective section through central hall.

corrupted and yet unable to support its own urbanity. It is an invented entity made of several existing towns whose mutual sprawl has now made them hard to tell apart. It is, sadly, a place or set of places fast losing what meagre identity they had.

Jones and Kirkland are presented with a peculiar 20th century version of the frontier of blank slate, a monotonous development without real centres or features, which still appears to leave little room for drastic amelioration because it isn't actually empty, just boringly filled.

One can slander places like Mississauga all too easily. Something must be right in Mississauga, because it wants Jones and Kirkland's building, which is like a massive injection of civilisation or a crash course in history.

The building tries to present lots of the long-evolved amenities and ameliorative gestures of older settlements, not in the digested and assimilated form one would find in a rich ancient city, but dissected as if in a primer or survival kit.

You are faced with the tremendously oversized pediment which sits down too near the ground as if still waiting for columns of adequate grandeur to raise it on high, as it also waits to be filled in behind, looking so

far almost the facade of a temple-to-be, an advertisement for a type of building which may eventually appear in these climes. In front of this are the various components of a gracious landscape park or garden — a maze, alleys, a pool, an amphitheatre.

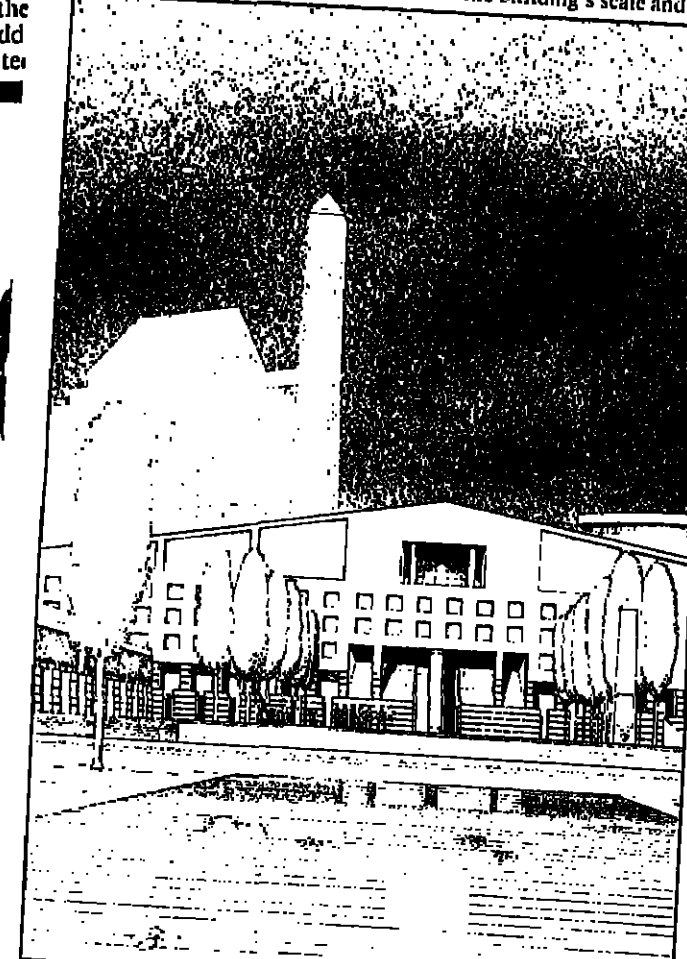
They jostle each other as if quickly sketched out or thrown impatiently down, because there is so much work to do that it cannot be done in a leisurely way or softened at the edges. Over this representation of nature the building presides, at its centre a mockery of the kind of hierarchic politics which sees palaces built.

And the centre, like a single eye, is a small podium high above the ground. "It is for making speeches", Michael Kirkland told me, but the politician who assumes the airs of a Duce would look an ass, so dwarfed by architecture and so out of touch with his audience and his troops.

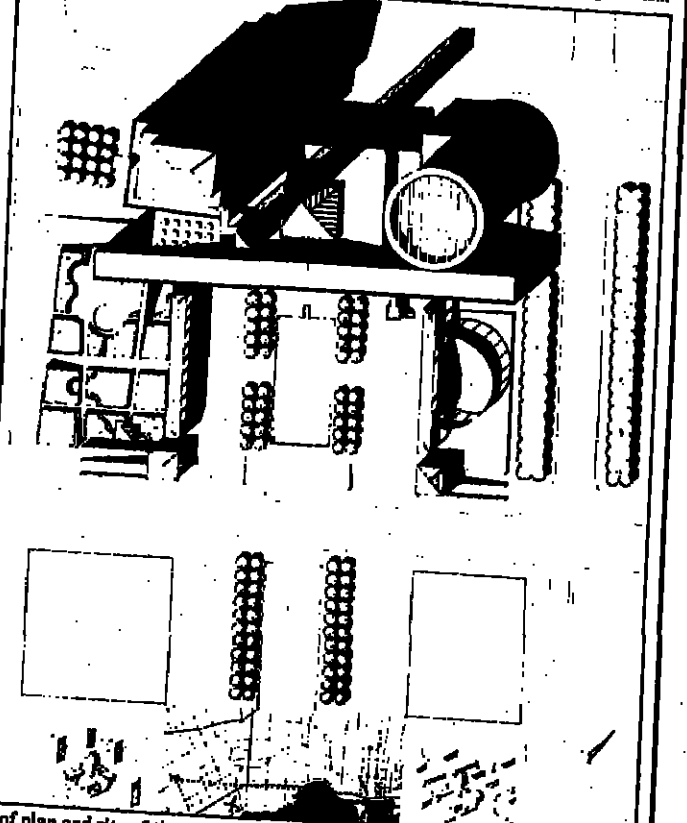
Inside, there are further deflations of pomp, like a grand staircase narrowing toward the top and making politicians its manipulees.

It sounds outrageous and would be unsafe to predict in detail, but like the imaginative Toronto City Hall of 20 years

continued page 18



Perspective view along major axis, showing tower and complementary obelisk.



Roof plan and site of the competition-winning plans.



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This is largely due to the fact that running costs for coal heating are being kept down in relation to other fuels.

But there is also a growing awareness that the costs of gas and oil are bound to escalate as they become more and more scarce towards the end of this century. (This fact is acknowledged by the Department of Energy.)

Britain's reserves of coal, on the other hand, are sufficient to last the nation for 300 years at present rates of mining. Coal will therefore provide energy long after North Sea oil and gas supplies have dwindled.

In which event, all homes should be built with chimneys so that they can switch, at any time, from using gas or oil, to using solid fuel.

The National Consumer Council felt so strongly on this matter that their report entitled 'Paying for Fuel' contained the following words:

"We recommend that no home should be built with only one fuel supply. The Department of the Environment should direct public and private developers to ensure that new houses are never restricted to a single main fuel and that all new houses have flues."

There are also some very practical benefits to be gained by using a chimney. Benefits that increasing numbers of householders are beginning to appreciate for the very first time.

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For all these reasons, the demand for homes with chimneys is rising.

In order to assist specifiers who intend to make provision for real fires, the Solid Fuel Advisory Service have set up a successful scheme called 'Cosyhome'. Under this scheme, specifiers can seek the expert technical advice and marketing support of the Solid Fuel Advisory Service, free of charge.

Besides such present developments, foundations for the future are being laid by investing millions of pounds each year in a research programme carried out by the Coal Research Establishment at Cheltenham.

Their efforts are being directed towards making solid fuel an even more efficient, convenient and economical means of home heating.

Over the last year, for instance, one of their many projects has been to develop heating appliances that feed and de-ash themselves automatically. So there might well come a time when the coal-scuttle becomes redundant.

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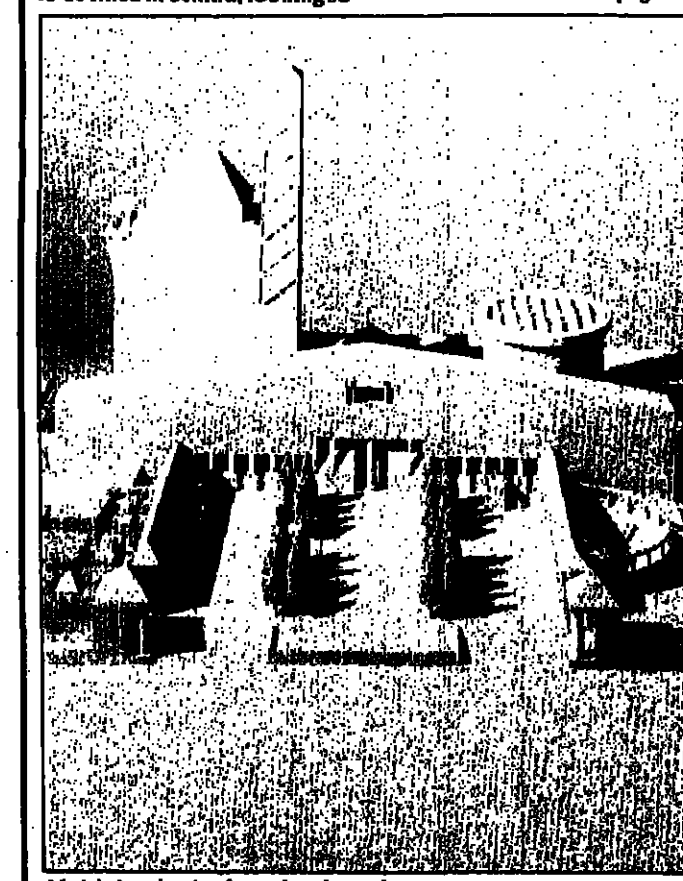
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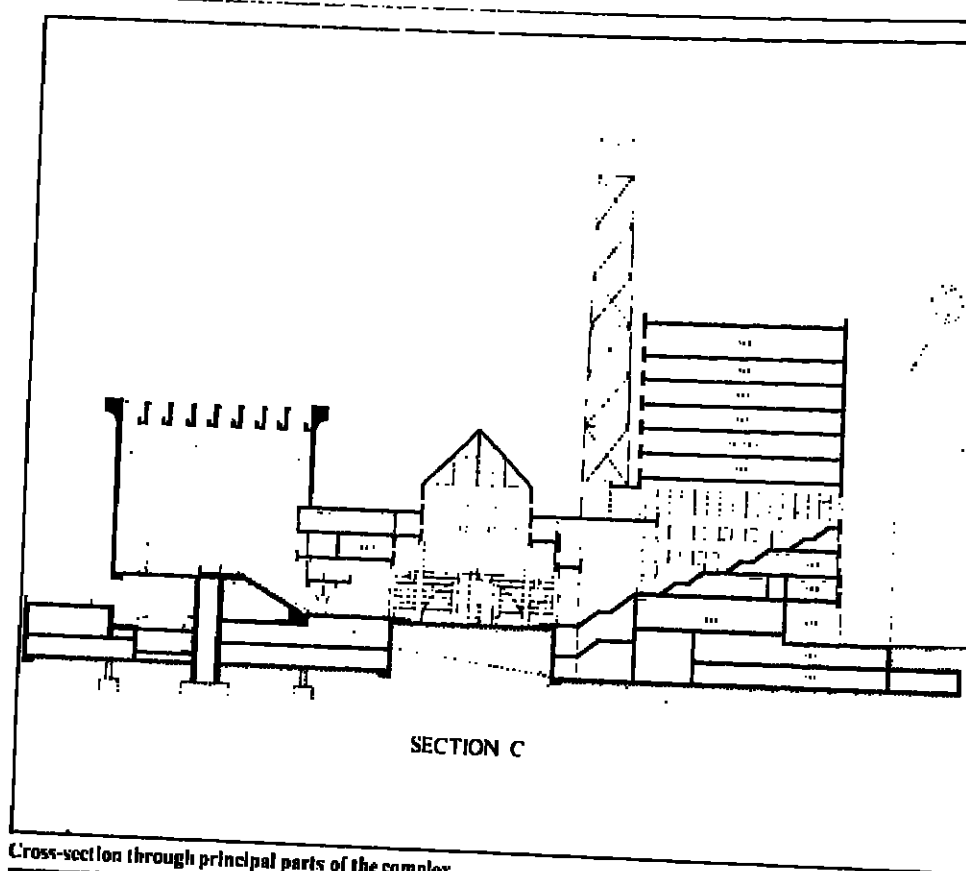
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Real fires start with British Coal. NS/BD/001/CH



Model view showing front elevation and square.

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Cross-section through principal parts of the complex.

## Grandeur in the suburbs

from page 17

ago, I think this building will influence the political process. Not even the toughest or the most unperceptive user will remain entirely unaffected by its scepticism.

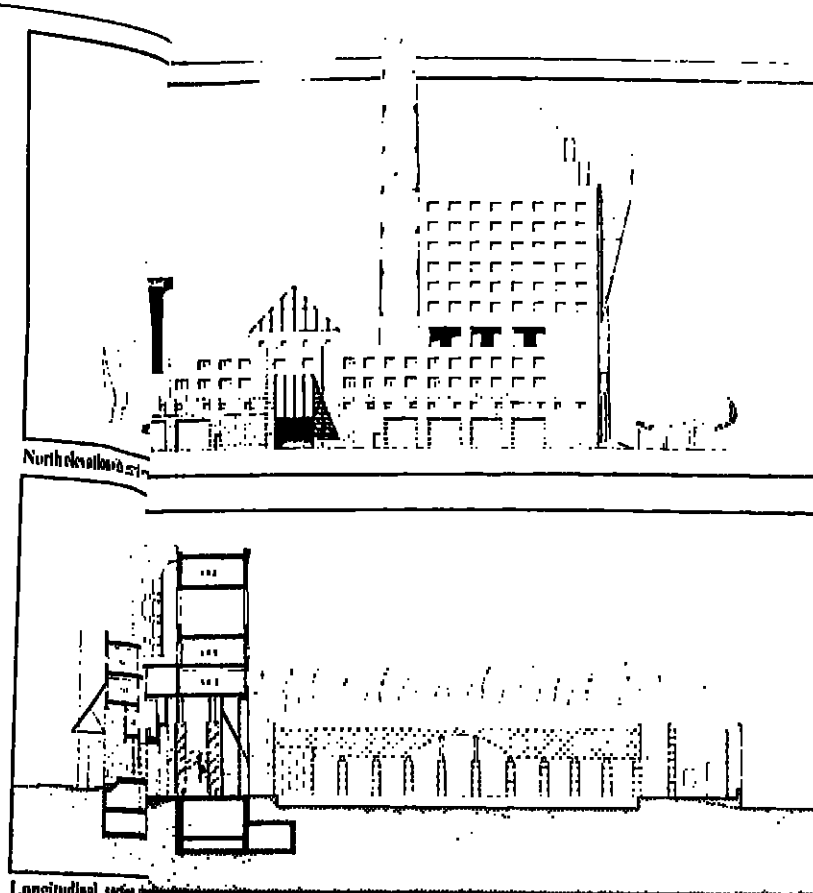
When one goes behind that grand and would-be pediment one may feel that from some sides the building has too much of an air of an anthology of architecture's geometrical range, for there is a collection of solids — cylindrical, conic and cubic. All similar to those satisfying toys for children, which reduce all shapes and colours to a primary set of six or so.

But I appreciate the irony that so much recent architectural thinking is more vividly executed here in this backwater than in the more central places one might have predicted. But it is significant that we are almost in sight of Toronto.

It is Livolt or Potsdam, not Chaux, near but quite distinct from a real centre, and therefore able to express urban theories and vent dreams of high civilisation in a freer, more relaxed way than is ever likely in the metropolis.

Before long, students of ideal cities will probably be making their pilgrimages to Mississauga to see, not a city (because the architects' vision of how the new development will learn and radiate from their building seems extremely utopian — I wish it could happen but do not entertain any real hope), but a building which is the city. It ordains, in a connected series of acts, the whole range of public possibility.

So in some sense Jones and Kirkland have found the chance to imagine and build more grandiosely than almost any of their contemporaries.



Longitudinal section through the complex at ground level.

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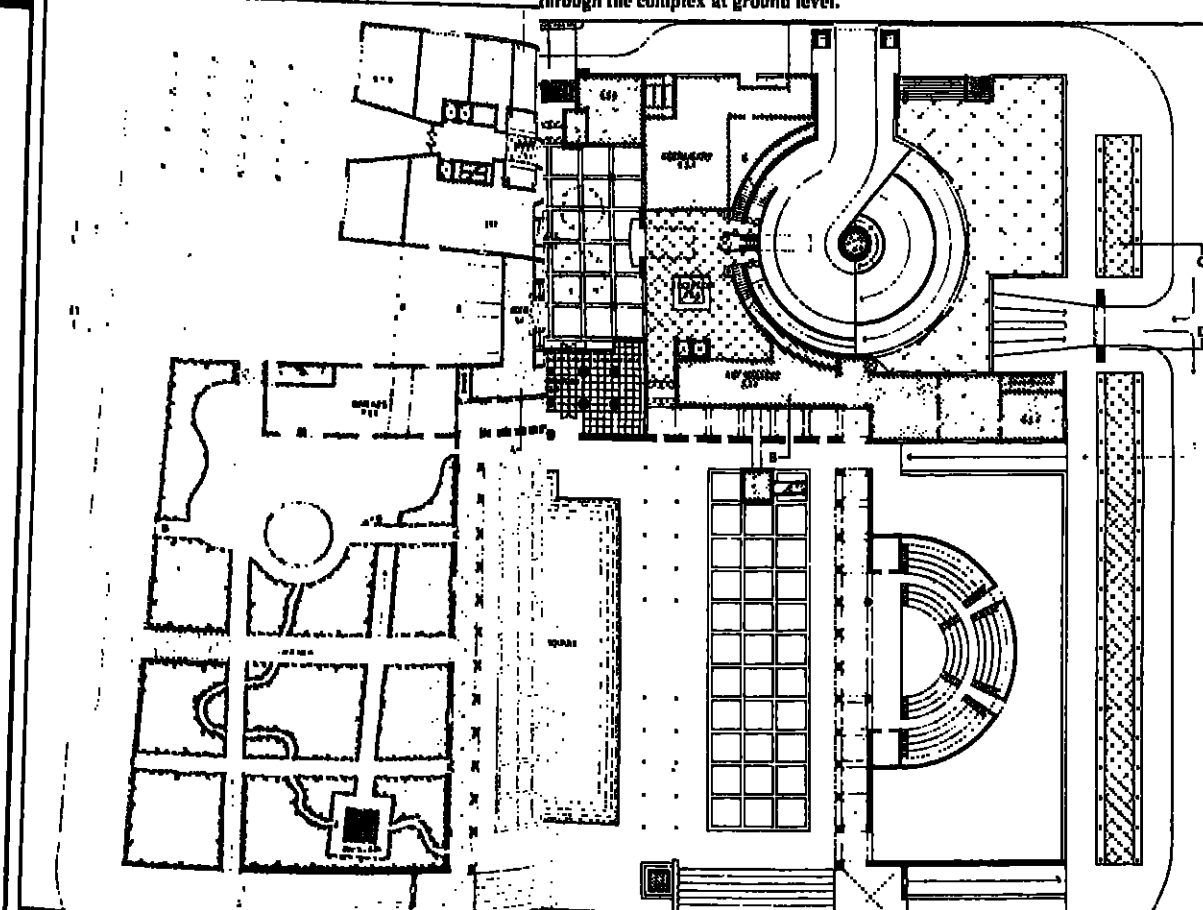


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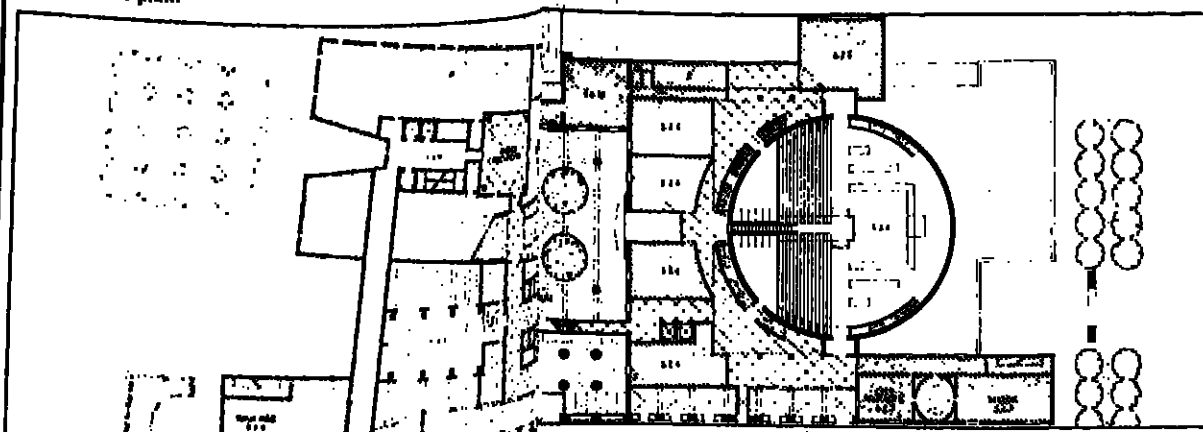
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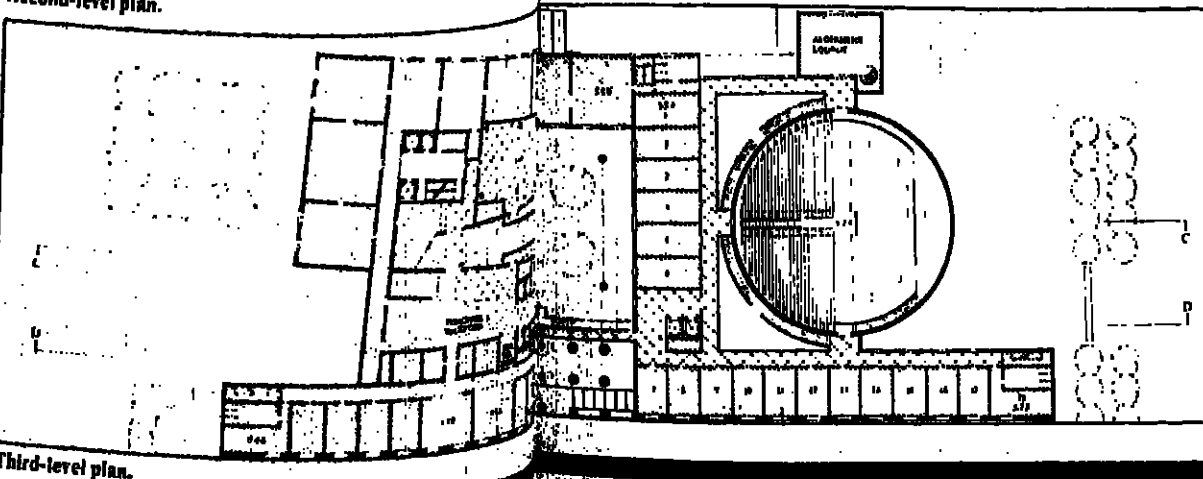
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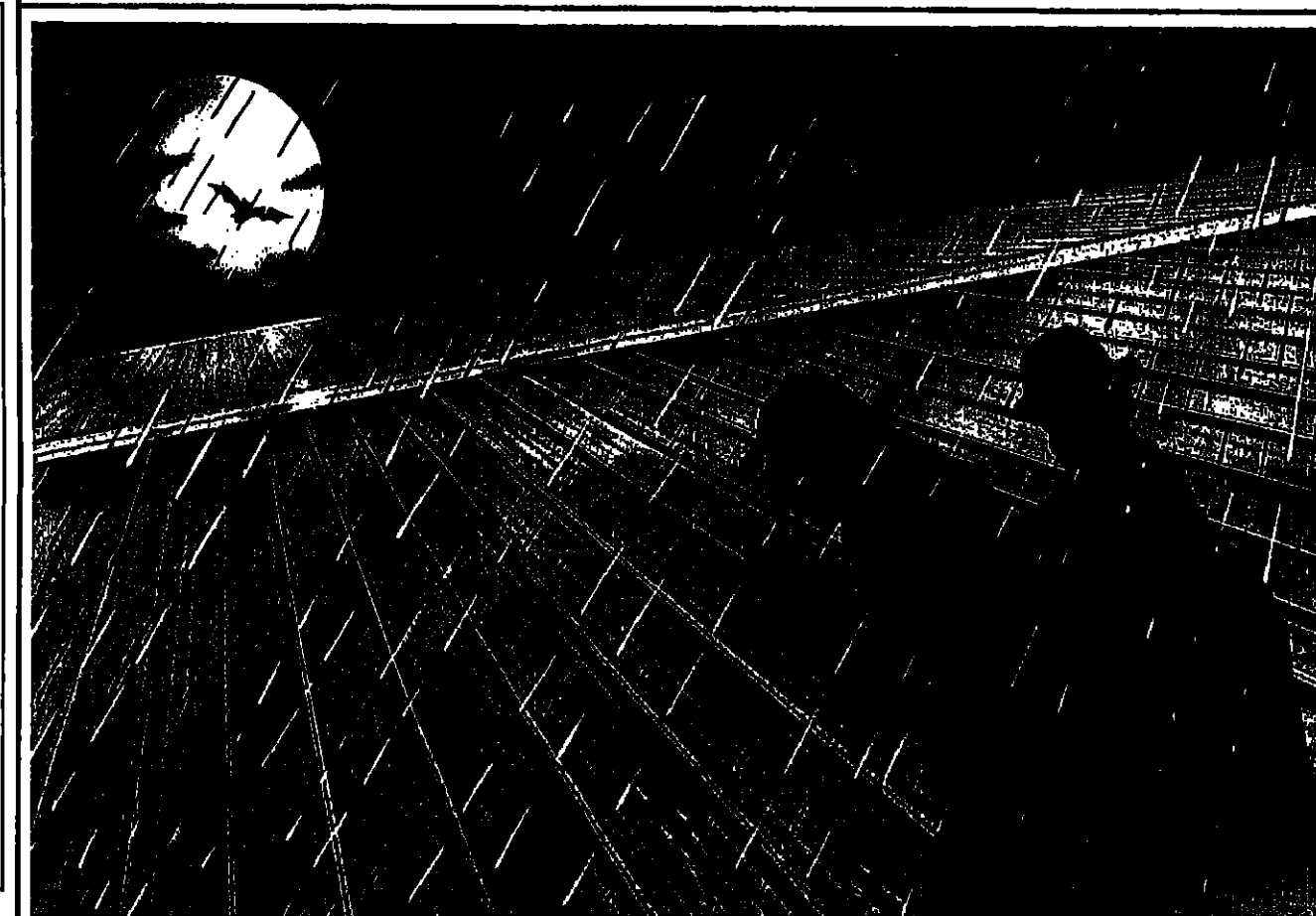
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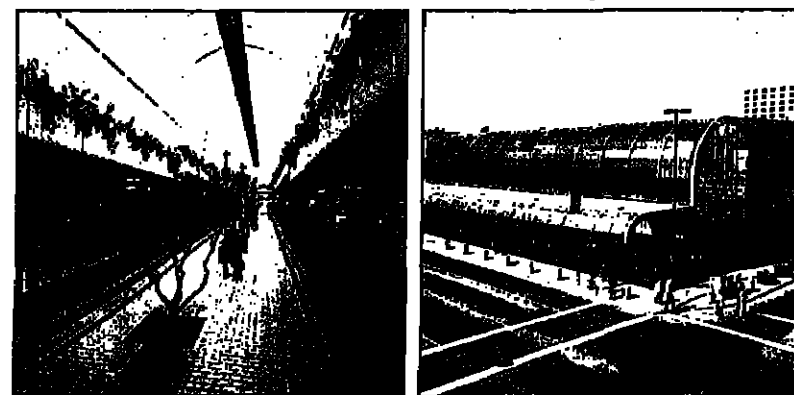
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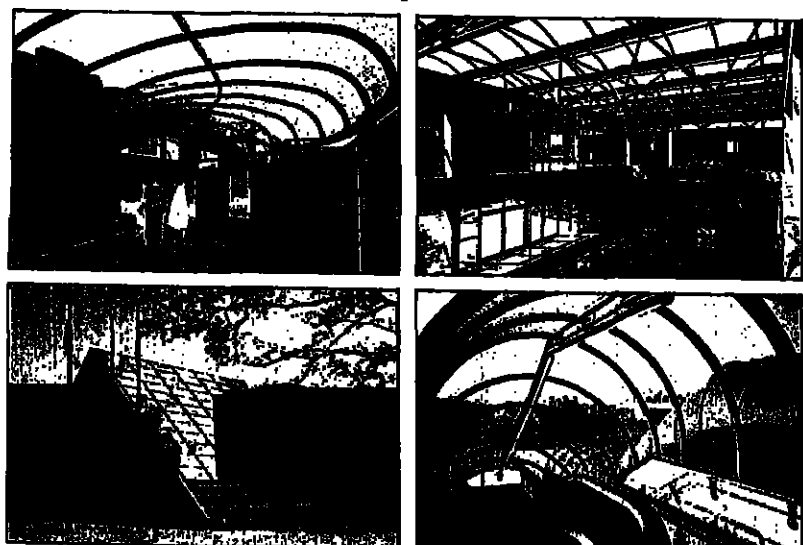
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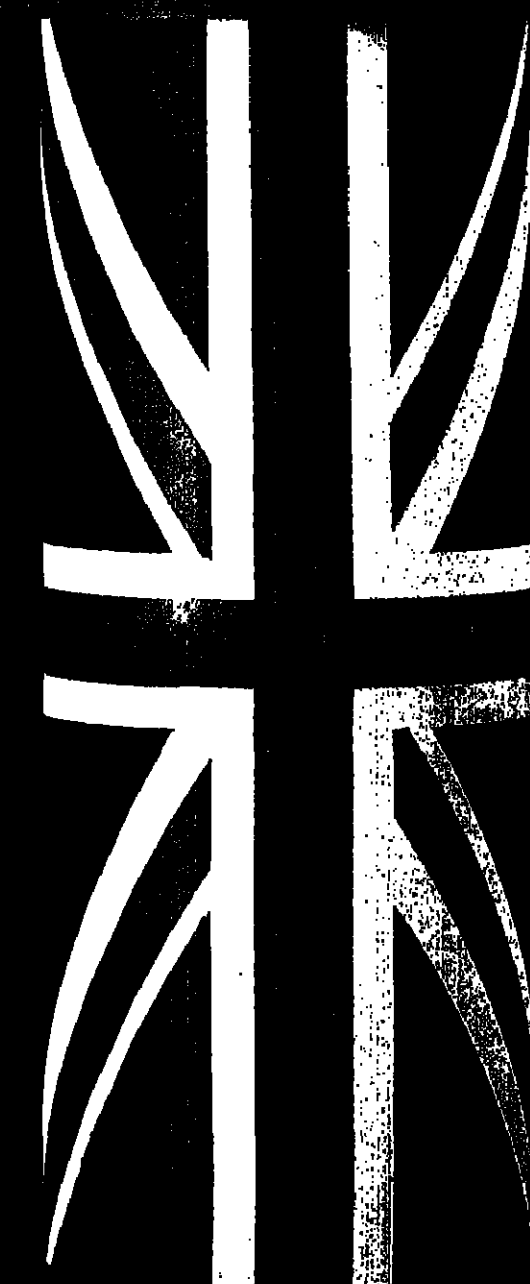
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# SUNSET FOR THE STRIP

Alan Blanc tells the tale of three towns in Washington State.

THE American "Strip" is the biggest stumbling block for European comprehension and the reason why the irreconcilable aspects of the Yankee environment make one long for Europe.

Venturi writes on the Strip in *Complexity and contradiction in architecture*: "In God's own junkyard Peter Blake has compared the chaos of commercial Main Street with the orderliness of the University of Virginia. Besides the irrelevancy of the comparison, is not Main Street almost alright? Indeed, is not the commercial strip of a Route 66 almost alright?"

That I feel is simply eyewash for an apparition that disgraces every township, whether it be Jefferson's Charlottesville or Grand Coulee in the lee of the Coulee Dam, and that gives the USA an ugly commerciality that eventually drives the visitor to say USA — the Ugly States of America.

Jane Jacobs, writing on the *Death and life of American cities*, does not touch upon the Constitution and consequent economic distortions that give rise to the "Strip" mentality coast to coast. It is worthwhile spelling out these facts before looking at how three townships have set out to dress up the strip and make good the damage caused by decades of market forces wrecking the environment.

Zoning ordinances are part of the Constitution and were drafted state by state as the population spread westwards in the 19th century. In essence, urbanisation is a fundamental right and a township, once registered for development, has within its blueprint the basic zoning divisions of commercial and residential. Grid planning is the norm for agricultural and

urban subdivisions, the latter often being by railway engineers with the plots drawn parallel to the tracks. Cities founded 100 years ago along rail routes were totally within the aegis of the "railway barons"; for further reference read *The Octopus* by Frank Norris 1870-1902. It will be compulsory reading for my students next time I visit the West Coast.

The term "commercial" has a range of gradations... heavy industry, transportation, warehousing, running the gamut through to offices and retail. Racism entered into zoning in California with the Chinese excluded from the commercial strip, a point that was overturned by their appeal to the Supreme Court, Washington DC. The "blueprint" is in fact simplicity itself: a grid iron of say 100ft x 100ft plots, enlarged to 200ft x 200ft or 300ft x 300ft in the commercial area and drawn in strip zones... firstly the railway tracks, alongside... factories and warehousing, next a service road, thence commercial and the main thoroughfare (the inevitable Main Street), a balancing commercial zone on the otherside and finally residential.

The expansion of the grid is infinite in all directions. Town limits are not a limitation as the next settlement applies for township status so that ribbons of development line the trunk routes, now road not rail in the latter part of the 20th century.

There is a total absence of strategic planning in the European sense and many older areas in America are simply left to rot while new commercial strips are constructed with better and bigger shopping malls, science parks (term for hi-tech industrial) and business plazas (meaning office blocks)... five, 10,

even 20 miles away.

Democracy in the States is a matter of equal opportunity under the Constitution, and is at the root of the dilemma when it comes to restrictive legislation; compensation for not having the right to zone or rezone being the mental blockage that frustrates long-term planning of the environment. Pro-Americans will term my preface "commonplace", but to outsiders it is necessary to grasp the point if one is to understand the incredible voluntary work by some communities to turn the tide against a very Philistine world in Main Street USA.



The American Strip: unplanned commercial strip at Grand Coulee.



Covered street crossing with lower canopies to shops.



Crossing the strip: looking towards shop fronts in Cashmere.

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## Cashmere

(population about 2000)

CASHMERE is a small town in the orchard belt above the Wenatchee Valley and now bypassed by a motorway on Route 2, this being the principal scenic highway that leads 100 miles through the Cascade Mountains to the coastal cities of Seattle and Tacoma with a combined population of 750,000. This proximity (in American terms) implies heavy tourist traffic to an attractive alpine area, similar in many respects to Martigny in the Upper Rhone Valley.

Passenger traffic was withdrawn on the local railway and the chamber of commerce decided to look at ways of attracting visitors back to its Main Street now that Cashmere was simply a cul-de-sac off the main road. A farm museum was sited at the traffic interchange and a local architect, John Stillenberg, proposed revitalising the shopping area by using covered ways to link the shops and to protect shoppers at pedestrian crossings. The style of canopy is vaguely New England Colonial — something

like the Pantiles at Tunbridge Wells.

The photographs reveal that "something like" is far off the mark, but the reality is remarkably successful as the vigorous discipline of posts, beams and shingle roofs ties together the chaos of differing facades and unites the signage once and for all into small-scale features with well considered lettering. The "crosswalks" are superb as these split the total length into recognisable "places" or elongated squares and frame up the block that terminates the street at its western end.

Facelifts of this type are called "Main Street" schemes and attract federal grants for improvements to paving — brick and squares of exposed aggregate in the case of Cashmere — that give a grid pattern related to facade.

The traders have had to foot the bill for the canopies, roughly \$4,000 each 10 years ago. Features like the "crosswalks" were met by a levy on all traders. Climate in the "Cascades" is severe, so the continuous cover now provided means rain or snow is not a deterrent to shopping and browsing.



Signage at Cashmere is tucked away under the canopies.





Leavenworth strip, more German than Würst mit pommes frites.

## Leavenworth

(population 1,500, plus 1,500 outside city limits)

LEAVENWORTH has the good fortune to be a ski resort, but was beset with the same problems as Cashmere when the train service was withdrawn. The chamber of commerce involved the University of Washington at Seattle and a report was produced in 1965 which highlighted the assets of the township and its setting and the way in which an "alpine design theme" could be applied to the main thoroughfare to make it different from any other

main street on route 2.

Leavenworth is very typical of ribbon development, with the commercial zone running right through the town and to a depth of 300ft back from the frontage, the consequence being the scale of facades, whether Western or kitsch, is dwarfed by the space between. This is totally different to alpine resorts like Mürren, where one shakes hands across jutting upper storeys.

This part of Washington has a sprinkling of German immigrants and had a nickname "Little Switzerland". The design proposal was accepted by the chamber and town council and a start made on the trans-

formation in 1965, the work being self-funded. It is difficult to get a figure for the building costs involved, but the re-modelling was more than cosmetic as the Tyrolean taste goes round four sides; the lean-to roofs and black felt top giving way to full pitched roofs (in the style of cuckoo clocks).

My impressions were that the Leavenworth burghers had anticipated the remake of "The Sound of Music" or "Heidi" and the profits that would ensue. Madison Avenue is never far behind and the adverts and signs take the cue... "Take Home a Leavenworth Burger". "Welcome to the Maifest and Volks-march". "The Kinderfest" with the Tickle Lute Lyphoon Band. "Jansbrucker Inn with Park Haus Gifts". "Hansel n Gretel Delicatessen". "Zur Ratsstube Restaurant".

A lot of architectural skill has been employed to make the dream into a stuccoed, timber-framed Bavaria, the leading local designer being Heinz Ulbricht, a former native of southern Germany. The shops cater for these "volks" from the Fatherland with lots of imported goodies and brungs back

memories of the Family Run or "British War Hymns" as known to the 1950s tourists in times past.

Safeway had a genuine aesthetic from the 12ft high below the chalet roof.

Visual jokes appear by touch: shop traders enthusiastic, a few empty shops, noisier like the one in "Psycho", that film, really, being the best road to Americans and the architectural terms.

The Leavenworths to seek respectability original inspiration a miles away. This nation about American values, for Yankee certainly eclectic - the dying downtown interior settled for Micky Mouse another for the "Wild Hollywood terms".

Leaven burghers are, ever, very proud of an ancestral success, the fact being taken from Echo. "That's the story, someone asks you why



Main Street, Pullman, with linking canopies, new pavements and better signage.

## Sunset for the Strip

the money you have the answer... they did it themselves, with what they have saved or borrowed... Which puts a very American front on the Bavarian village. The whole continent seems to be very snug in the fact it is run on "lick", but highly critical of central or south America that renegates its debts.

## Pullman

(population about 16,000 within city limits but 30,000 within 5 miles)

THIS city is the wealthiest of the three reviewed and owes its unique position to the presence of Washington State University, which gives a young population of 12,000 or so, plus the back-up of educationalists and the service industry that keeps the place ticking over 12 months of the year. (I should explain at this point that it has been my home for the winter semester.)

The surrounding area of the Palouse is rich farmland and stretches 100 miles westward before other urban districts are found; to the immediate east lies the state border and a mere 12 miles down the road... the mirror image University City of Moscow, Idaho.

The lack of comprehensive planning within a state across state boundaries is very apparent in Pullman, with ribbon development beginning to connect the twin cities and to erode the value of central area shopping in both places. Main Street schemes have been undertaken in Pullman and Moscow to counter the pull of covered shopping malls built in the suburbs, but nothing is done to

freeze zone limits along the connecting highway. The same disability in local government to come to grips with real issues in land use is the reason that a "Greenway" to connect the two universities has been a talking point since both establishments were founded 80 years ago! The actual path could be made on open land alongside the rail tracks and river.

The paralysis in planning rests with the old bogeys of zoning, the rights of riparian and trackside owners, compensation for lack of rights in future and the whole rignarole of procedure that strangles democracy on the wrong side of the Atlantic and below the 49th parallel!

The goodwill and patience of the public is amazing, likewise the amount of voluntary time put into civic projects to get matters moving, although one is left with the view, politically speaking, that the alphabet and wheel are invented each time a scheme is inaugurated. Such an event took place last Easter when the Pullman Civic Society held a "workshop design" session to look at the current ideas for a walking trail to Moscow.

My contribution was to talk briefly about the work of the National Park Authority in the Peak District, where hundreds of miles of walking trails exist. The key comparison being the 60 miles of walks created on old railways or canal banks within a 12-year span and paid for from the rates; a really different world in terms of ideas and positive action to that seen in Pullman. It is this last aspect of public expenditure that is the rub in Reaganomics... minimal

federal funding... largely self-help and smug charity.

The "Greenway" proposals for Pullman were supported by state officials giving accounts of other schemes with a time scale of 16 years to fruition, like that at Yakima; the first couple of miles involving unmet needs organisations from Boy Scouts to Eiks and even Rotarians to weed, plant litterbins, put in shrubs, then put their names in proud fashion on every job completed.

The prettyfying attitude here is supposedly direct reaction to the mess left by quarrymen and railroad engineers and much the same could be said of the new river park at Pullman.

The park in that city is the space left after architects and engineers completed flood prevention measures 10 years ago, the ground being a dump for cars and rubbish ever since. Full credit for the transformation has to be given to the Pullman Civic Society (modelled on British ideas by expatriates) which auctioned off the dump in segments to volunteers to tidy and plant in accord with a general planting scheme. The before and after views show the changes made, which have inspired the society to develop a banner theme to decorate Main Street and to run a conservation committee that gives opinions on all building applications in the central area of Pullman. The city also has an active chamber of commerce and they completed a federal funded project for repaving plus a one-way system back in 1976, that operation being linked with a facelift to the facades, with redecoration and tidying of signage.

It should be explained that

federal funding for urban aid is similar to HBC grants in the UK - 50:50, private to public. The fierce independence here means that the solicitor is reached for, if not the gun. The street improvements of Moscow were challenged by traders as not worth the investment (after the work was complete). This resulted in \$180,000 being paid back to traders on Main Street.

There is one final point, which relates to tax structuring. Credits are obtained for charitable donations, like the Sainsbury's provision of the National Gallery extension, or Getty's gift to the miners. It's not a matter in the States of a knighthood, but the hardbitten truths of tax dodging. The Yakima Greenway, already mentioned, is a registered charity which collected \$1 million in one year from a community of a few thousand.

Readers may think this can never happen in Britain. Well, in my view "Thatcherville" like Docklands represent Americanisation of planning with a vengeance, and one only has to look at the proposals for selling off surplus M25 land near the M1 interchange to see that the long-term principles laid down by Abercrombie a mere 42 years ago are totally forgotten by those consumed (to quote Lord Stockton) with selling the family silver.

The latest tax changes in the States will bring the base rates even lower down the scale, but at the expense of the tax credit system, so one could write that this tale of three cities is an epitaph to an era of self-help in the civic sphere, or of tax dodging to the more cynically inclined.

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Above and right: Maelor General Hospital, Wrexham, designed by the Anthony Clark Partnership for the Welsh Health Common Services Agency. The project was completed in 40 months with a 30.77 per cent saving on the budget at the end of May 1985.

WITH health authority spending hit by Government cuts, architects asked to hand back fees and at least one regional health authority architects' department privatised, one hospital construction system is giving the health service a much-needed shot in the arm.

Nucleus has been the pride of the Department of Health & Social Security since its birth in 1975. No cuts have been allowed to stunt its growth and no health authority offered the chance to use it has refused. A £900 million programme of new-build and extensions has been undertaken, with 29 completed schemes and another 74 in the pipeline.

The system was born of necessity. The 1973/74 oil crisis brought a radical revision of the DHSS spending programme. If the country's regional and district health needs were to be met, a cheaper, quicker alternative to the Best Buy and Harness systems had to be devised.

The department's response was to design an intensive-use, first phase hospital of about 300 beds which, with the usual satellite units of a district general hospital, could provide for the needs of a 250,000 population for up to 10 years without expansion. The design had to provide sufficient but limited choice of content so that the first phases might be tailored to different service priorities, and efficient use of space through good functional relationships and clustering of departments. The new programmes had to cater for a wide range of sites, make maximum use of natural light and ventilation, allow for new fire and escape regulations, and plan for two-storey buildings with the option of adapting to three.

From this core, further units could be tacked on whenever resources became available, so that ultimately a district general

hospital of 600 beds could be built.

The result is a planning system which liberates the architect from the arduous task of calculating how much space should be allocated to each department, and makes the complexities of hospital design less intimidating for the uninitiated. Most Nucleus hospitals are designed by private sector architects and for some it is their first foray into this area of practice.

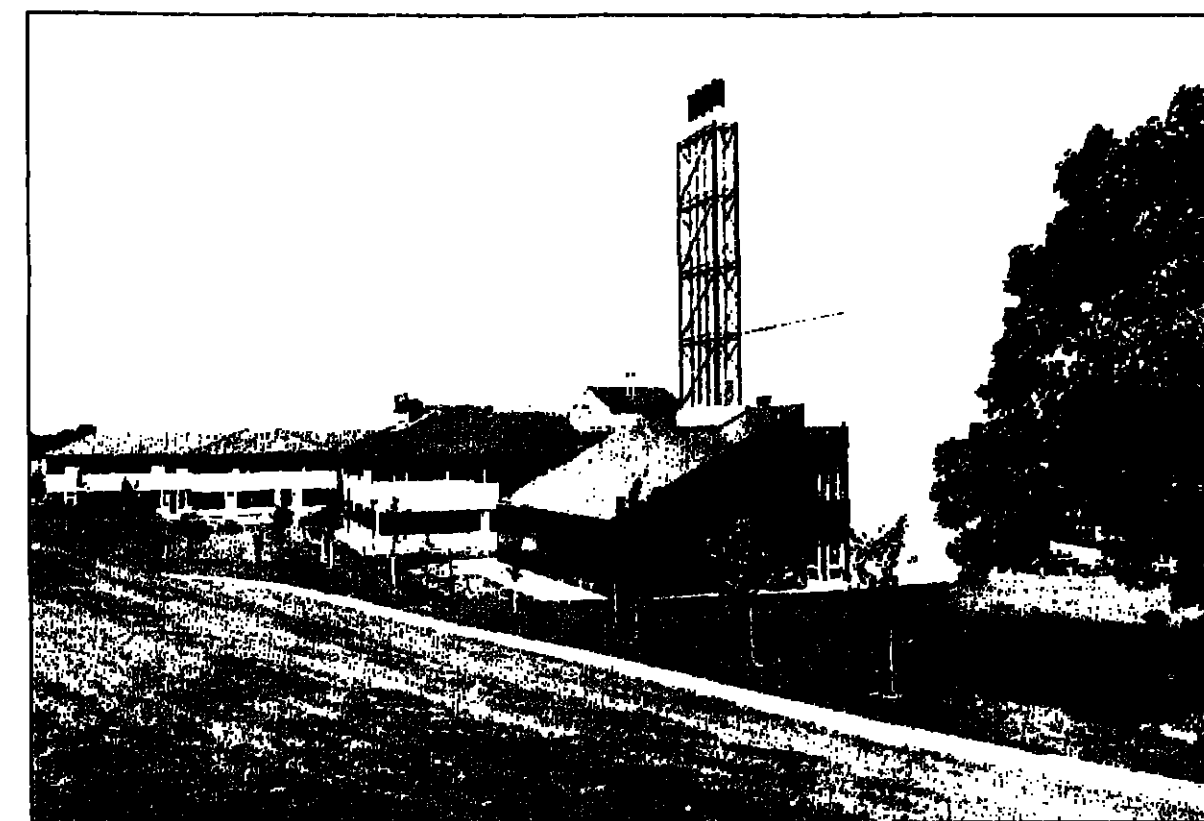
The success of the system lies in its simplicity. The primary element is a cruciform clinical "template" of about 1,000sq m which can be divided in a variety of ways to meet the differing needs of single or groups of departments. The form was the result of research into which standard shapes would be most suited to various applications and the relationships of departments to establish their ideal proximity to each other. Departments are linked horizontally by a 3m wide hospital corridor and vertically by lifts and ramps. The second element is the service and industrial areas, which vary to fit in most conveniently with each hospital. The programme provides an expanding kit which can be rejigged to suit the site and environment.

In its first applications Nucleus undercut alternative hospital planning systems by as much as 11 per cent, and although this margin now averages 7 per cent, the saving of up to six years in the planning and design stages is used straight off the peg produces a persuasive argument in the programme's favour. Savings are made in fees paid to consultants, initial capital costs, running costs and the reduction in the involvement of expensive and scarce project team personnel.

Nucleus was originally intended for the construction of new hospitals with the addition

# Hitals TREATING THE CUTS

In the first of two articles on health buildings, Fiona G. looks at the pros and cons of the Nucleus hospital system.



Maldstone District General Hospital saved 3.48 per cent on the budget and was completed after three years in April 1983.

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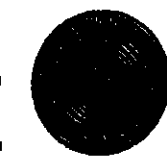
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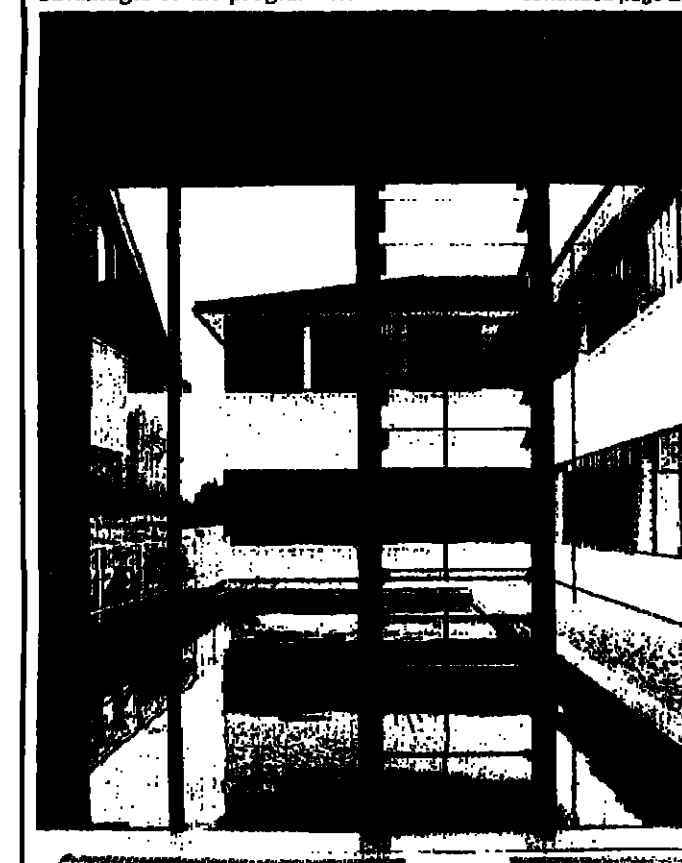
of single units or groups of departments to existing buildings seen as a sideline. Now its application as part of phased redevelopment has taken the leading role and research is being carried out into its viability for satellite units to care, for example, for the old or mentally ill. This would mean building single or double templates.

The first Nucleus hospital — and exemplar of the system — was Maldstone District General Hospital, designed by Powell Moya & Partners. Sir Philip Powell is in no doubt of the advantages of the programme:

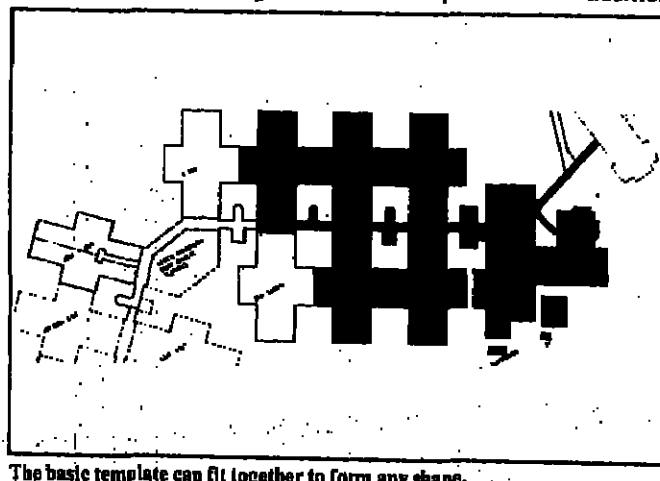
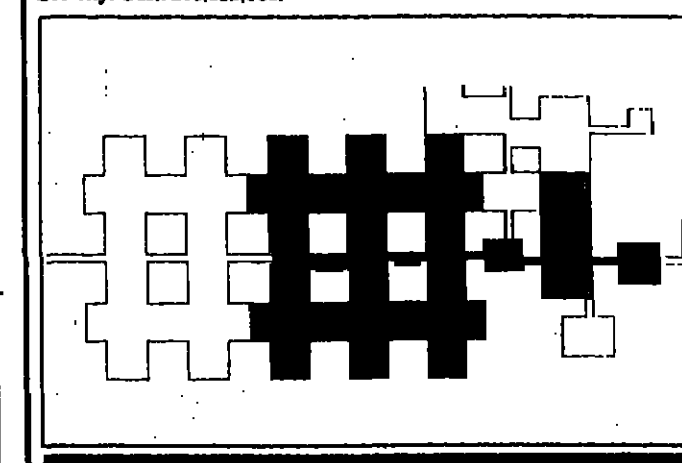
"Normally with one-off designs for a hospital the architect has to go to interminable meetings on who needs what and how much. The advantage of Nucleus is that, if you are prepared to put up with its discipline, you have time to choose the material and shape it. The time you save on planning you spend on other things as, for example, what I call real design."

Nucleus is not closed to alterations, but the planning system allows the architect time to consider the architectural qualities of the building and how to complement other features of

continued page 28

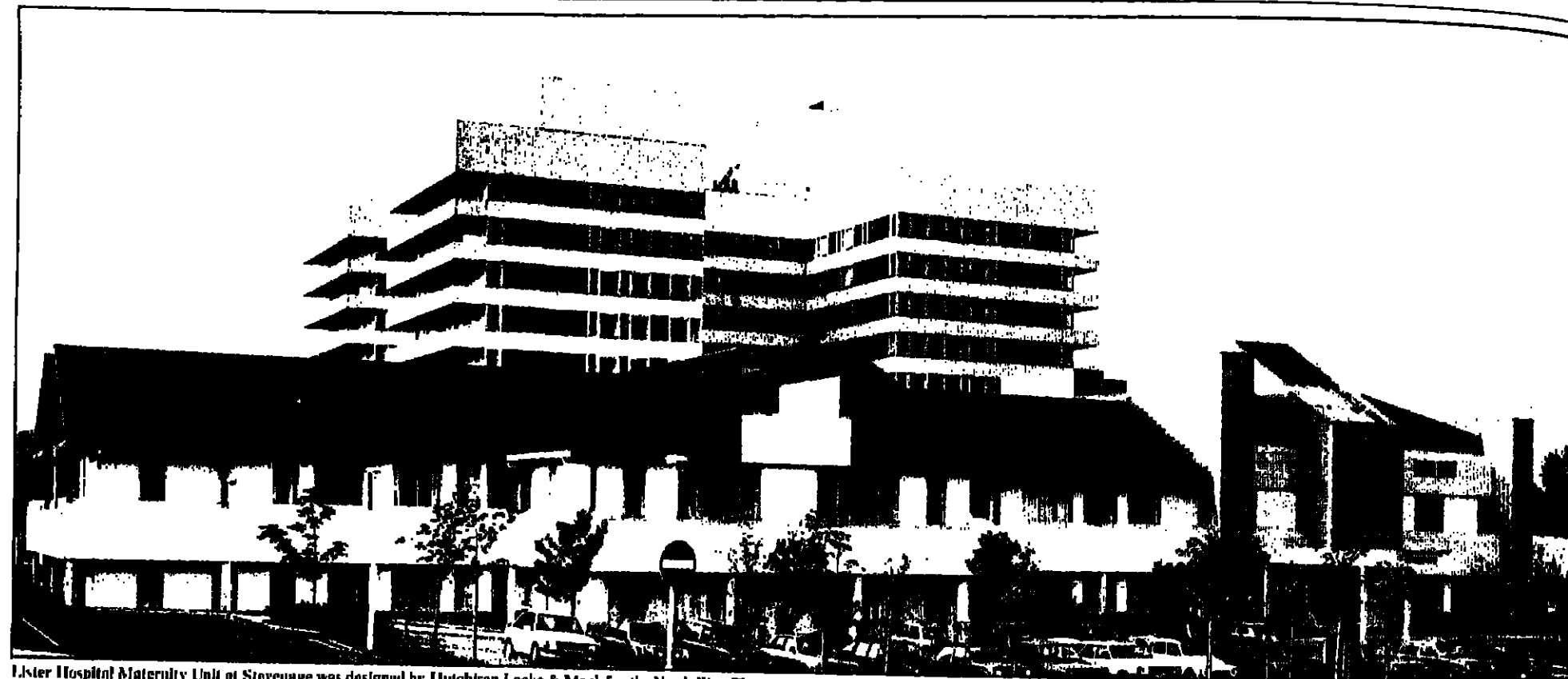


Powell Moya & Partners designed Maldstone hospital for the South-East Thames Regional Health Authority and the Department of Health & Social Security. Cost: £10,832,000.

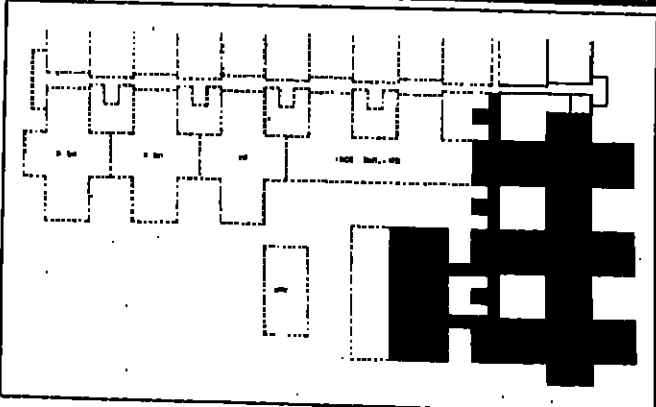
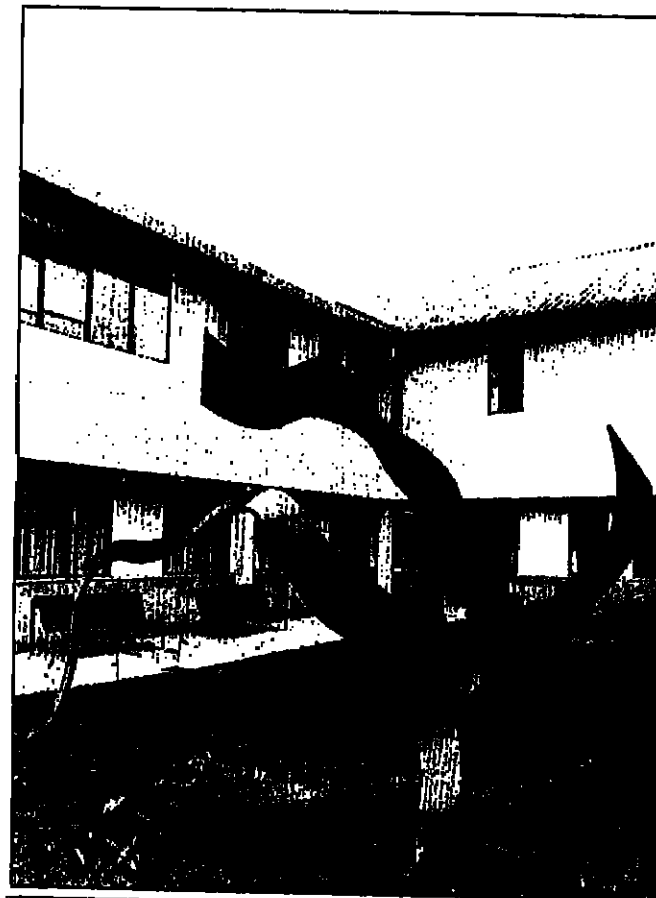


The basic template can fit together to form any shape.





Lister Hospital Maternity Unit at Stevenage was designed by Hutchison Locke & Monk for the North-West Thames Regional Health Authority and cost about £2,500,000. The additional unit saved 3.92 per cent on the budget.



## Treating the cuts

from page 27

the environment. It does not, as some early designer critics predicted, encourage a drab, uniform hospital type to spring up throughout the country. If anything, the data pack enables more thoughtful aesthetic treatment.

Powell recalls: "Lots of regions did not want Nucleus foisted on them in the beginning because they thought either plans would be compromised or the requirements of shape and size would make it impossible to make a decent building out of it." The practice's latest Nucleus project, in Ashington, North-

umberland, is quite different in form from Maldstone and is expected to cut energy bills by about 60 per cent when complete.

The 200-bed St Mary's hospital in Newport on the Isle of Wight, designed by Ahrends Burton & Koralek, is also destined to slash fuel bills. Although the practice has deviated from the Nucleus model in some details, partner Richard Burton explains that is not specifically for energy-saving purposes.

"Nucleus is a pretty good system in terms of energy efficiency. It is naturally vent-

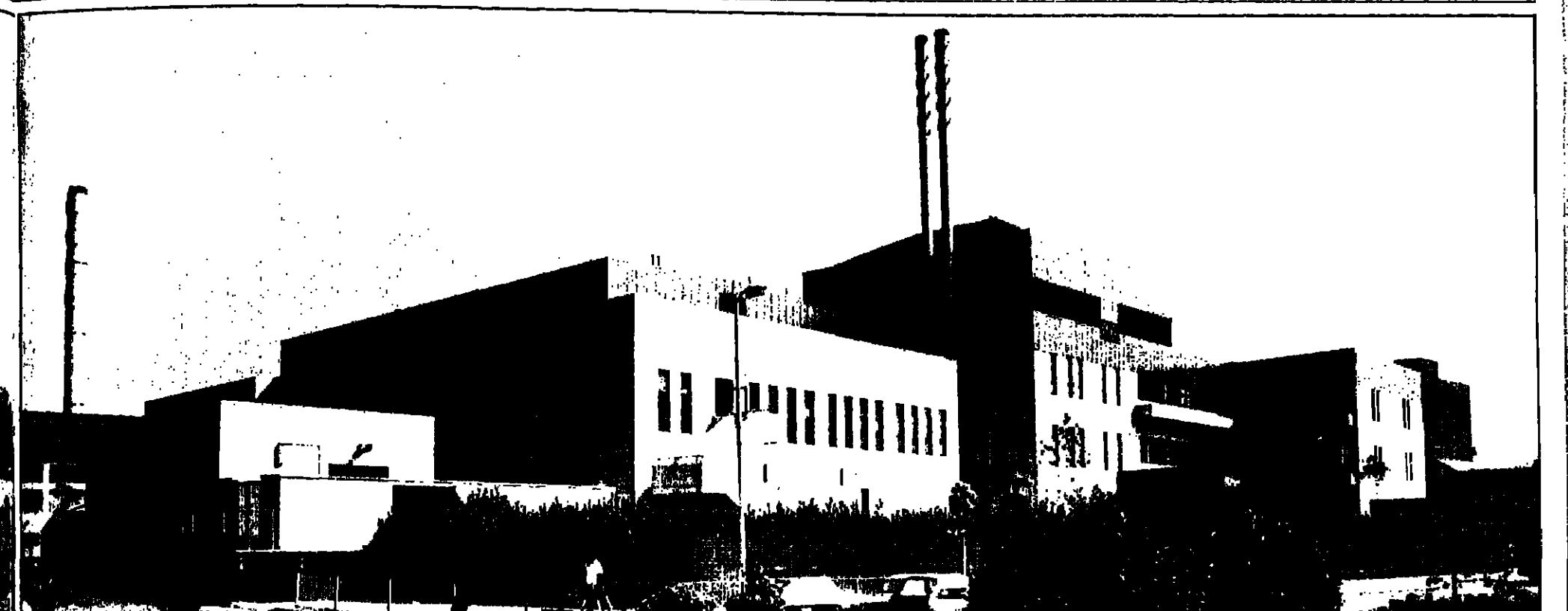
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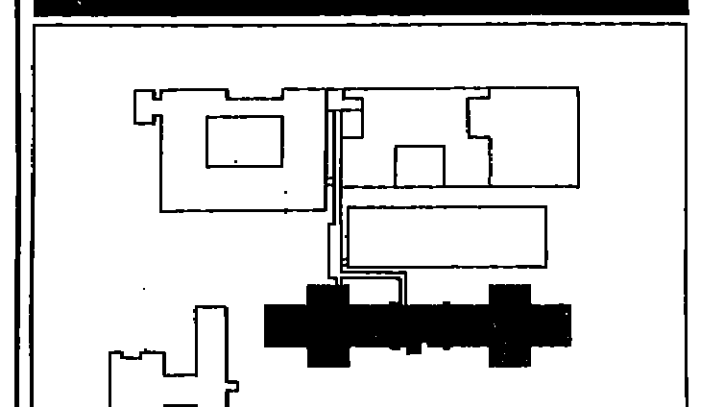
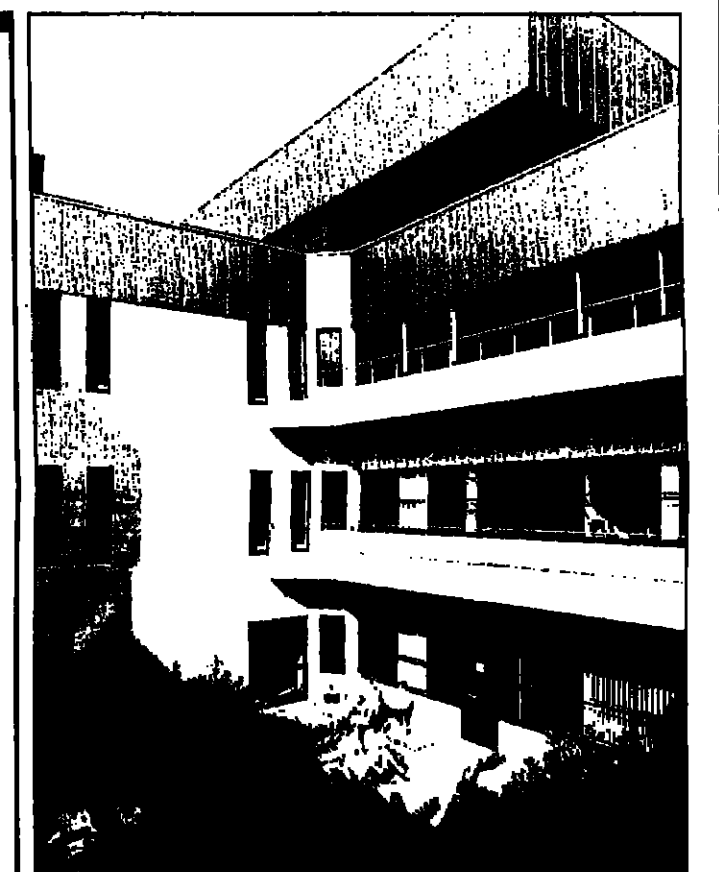
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N O N M E N T A L L Y D E S I G N E D



The three-storey Mayday hospital in Croydon was designed by the Percy Thomas Partnership for the South-West Thames Regional Health Authority. The system shaved more than 3 per cent off the budget and cost about £8,520,000.



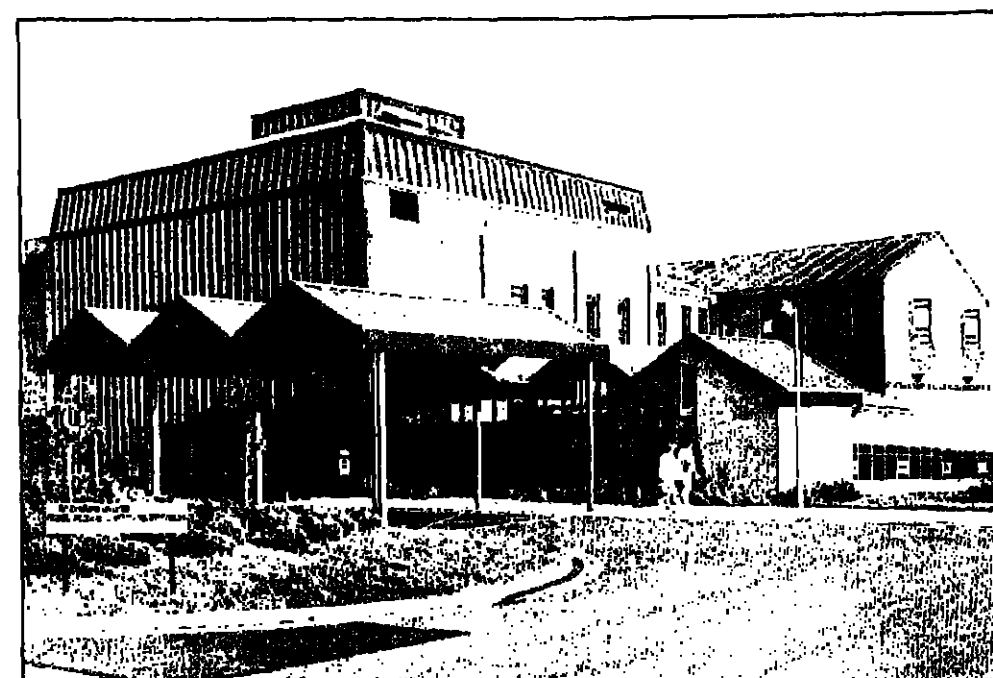
ilated on the outside and artificially on the inside, with an extract in the middle. It starts off quite well. There is quite a lot of external wall area, so you get light and air easily. All the things you would do for good house-keeping in a design are not constrained by Nucleus to any great extent."

The ABK design has placed the wards on the second storey, increased the insulation and added double-glazing and special ventilation to discourage opening of windows in the winter, and electrically operated doors to minimise air movement. Although Burton is optimistic about the efficiency of Nucleus, he believes research

should be carried out into whether there should be more insulation in the ground floor in certain ground conditions, such as where there is water close to the slab.

Hutchison Locke & Monk were the first architects to use Nucleus as a tack-on addition to an existing hospital. The total contract time for the Lister Hospital Maternity Unit at Stevenage for the North-West Thames Regional Health Authority was 24 months but architect Martin Delafosse estimates the programme cut the planning time by half. With about 60 per cent of the practice workload given over to hospital

continued page 30



Designed by the Welsh Health Technical Services Organisation for the Welsh Health Common Services Agency, the Murrilton Hospital in Swansea was finished after 45 months in August 1984. The total cost was about £9,435,000 and 10.78 per cent was saved on the budget.

## Treating the cuts

from page 29

design, Delafosse says: "We are using Nucleus more and more. There is a lot more time for the elevations and the interiors."

Delafosse admits that there can be difficulties in adding on units if the site is constrained, and envisages problems if the template system is used with small units: "Nucleus can be made to work, but it requires a localised plant room for each template. This would mean a lot of plant for a small area, which may not be economic."

The system has not been without its problems. The Medical Architecture Research Unit of the Polytechnic of North London has investigated its success at the Newham, East Surrey and Countess of Chester hospitals. The verdict: "Good in parts."

John Kelly of MARU says: "If it is chosen carefully in the context of local needs and the infrastructure that is already there it works well. But there are inherent limitations, for example, paring back ancillary

space." Kelly suggests that some departments fall foul of "template tyranny", forced into areas to which they might not be best-suited.

The Nucleus design does produce some odd bedfellows, says Kelly — "the operating department is squeezed in with medical staff accommodation."

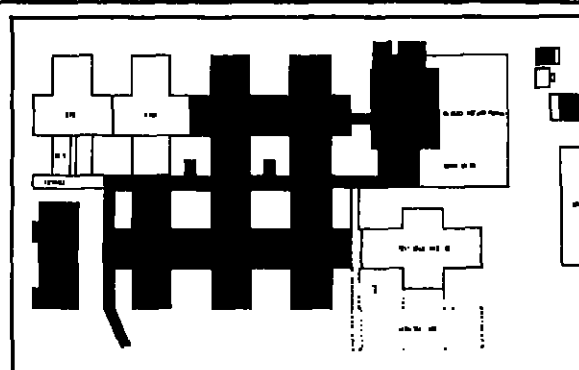
Inevitably, some of the calculations of how much space would be needed for a particular function over what period of time went slightly awry. For example, at Newham hospital the administration was seen as a "soft" area into which the X-ray department could expand as it



grew.

In practice the X-ray area was already too constrained and the administration had to be removed early on.

But with an annual budget of £400,000 for research and development and an in-house medical team to ensure that feedback is positive and the system remains up-to-date, the DHSS is confident that Nucleus will accommodate new practices in medical care and not become obsolete.



The arrangement of the wards is one area where YRM left the Nucleus brief.

## Variation on a theme

THE influence of the Nucleus planning system has been felt in many hospitals, some of which the DHSS would not acknowledge as Nucleus designs.

The Homerton District General Hospital in Hackney, east London, is a "Nucleus-based" hospital rather than the standard design. While the architects have benefited from some of the time savings of the Nucleus datapack, they have not been limited by some of its design constraints. Designed by YRM Architects & Planners with YRM Interiors, the 444-bed hospital opened its doors to the first patients a few weeks ago. It was commissioned by the North East Thames Regional Health Authority in February 1978 and started on site in June 1982.

Although the building conforms to the spatial requirements of Nucleus, the arrangement of beds and departments has been adapted. Homerton is not based on a hospital "street", but a series of rectangular pavilions made up of four L-shaped wards and linked to form a square court. An access corridor bisects this to leave two smaller courtyards. In the wards the architects have departed from the Nucleus standard of having beds parallel to the

exterior walls; here they are arranged on the perpendicular. This makes it easier for patients to see out of the windows and for the staff to see them.

The hospital includes nine wards of 28 adult acute beds, three obstetric wards with 84 beds, a delivery suite and special car unit, two 24-bed geriatric wards, an oncology ward, adult day-care ward and an eight-bed intensive care unit. The out patient facilities are designed to cope with up to 120 patients in a three-hour period. The department includes a fracture clinic, consultation suites, X-ray facilities and four operating theatres. This is backed up by extensive service provision and a separate education block to the north of the 5.5ha site.

The £16 million design is made up of four reinforced concrete steel structures, clad in warm yellow brickwork and topped with pitched roofs of blue-black slates. A network of sophisticated services is catered for within the ceiling voids and roof spaces. The architects have used landscaping around the four main buildings and included window boxes and pergolas to achieve a domestic and homely an appeal as possible.

Homerton hospital replaces the Victorian Eastern Hospital and borrows elements such as

the cast-iron columns from the covered walkways to achieve continuity in the new design. These have been used to support the pergolas.

There is some scope for expansion within the hospital and the site allows space for new buildings to be added.



The rectangular pavilions are made up of four L-shaped wards.

# "THERE'S NOTHING LIKE ECOPHON"

Tim Harris, Connaught Design Group

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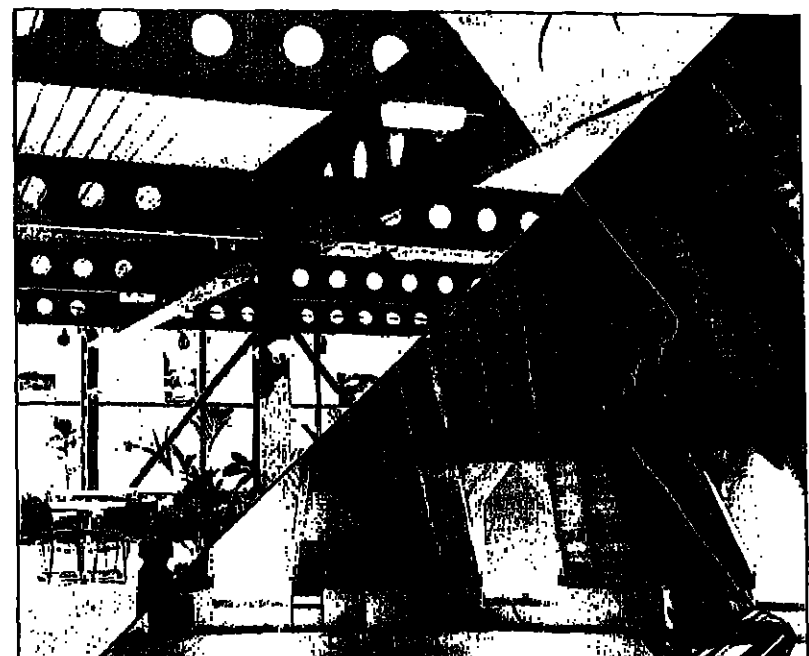
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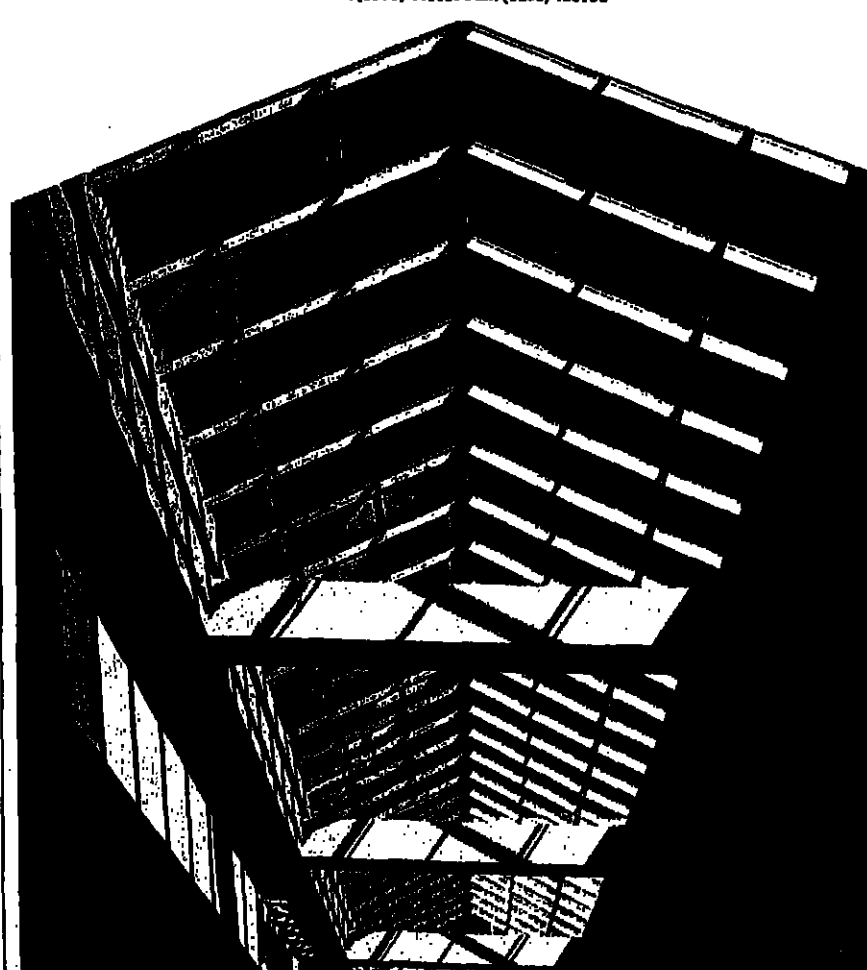
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IMAGES exist in the external world as a physical reality and in the brain as reconstructions of this reality. Or do they? Can their "whereabouts" be so easily defined?

What we call images are among the most ambiguous, elusive and multifarious phenomena. The means available for approaching and discussing them are equally varied. Those discussed include pictures, pictorial instructions, signs, gestures, dance notation, computer graphics, images in film, descriptive and narrative images in literature, optical illusions and configurations that do not exist.

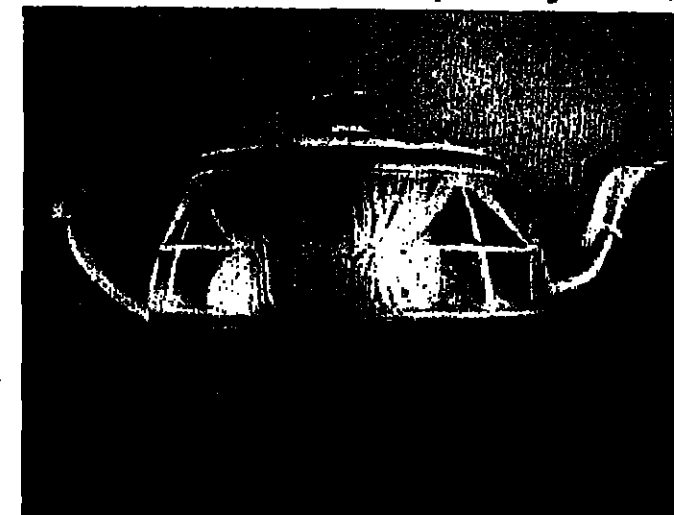
When we look at images, the most fundamental events, explained Horace Barlow, occur on the level of individual cells in the brain. Responses are highly specialised, with single cells reacting to, say, a degree of orientation of an object, its thickness, darkness, hue, brilliance, speed, direction. Most experiments dealing with an attempt to locate precisely the populations of cells or individual cells which demonstrate these specific responses have been done with monkeys.

David Perrett's experiments at St Andrew's lead to the conclusion that whole populations of cells may respond to a generalised image such as a face, whereas particular cells will automatically react to familiar faces. Groups of cells in the monkey's brain respond to the directions of the movement of humans in the laboratory, such as reaching for objects, tearing a piece of paper, turning around, leaving the room.

The responses are very particular. An empty trolley being pushed out of a room elicits no response whatever, whereas a trolley bearing a person on top results in an immediate burst of cell activity. The necessary condition of the experiment is that the visual stimulus must be in some way relevant to the owner of the brain cells: in this case, the monkey.

The physical mechanism of seeing, the eye and the brain, determines what we see. The mechanism and its processes have clear limitations. They allow us, for instance, to experience visual illusions even though we know perfectly well that we are being tricked.

Richard Gregory explained this phenomenon by distinguishing between perception and conception. Of these two ways of apprehending the world, he compared the first to a small computer of limited intelligence with which we confront our surroundings, and which at each instance allows us to survive for a few minutes by responding appropriately to the input from the environment. The more complex conceptual knowledge is applied to longer term strategies but cannot override the constancy of the initial impact of the illusion.



Computer-generated teapot with photograph of a window mapped onto its surface. Produced by Information International, the image involved the collaboration of Joe Spencer, John Whitney, Martin Newell, Gary Demos, Malcolm Macmillan and Jim Blinn.

# THE ELUSIVE REALITY

Jasja Reichardt reports on the "Understanding Images" symposium sponsored by The Rank Prize Funds, attended by neurologists, philosophers, historians, novelists and computer scientists.

even though it makes us aware of the illusion's existence. Another such discrepancy in the mechanism is expressed by our inability to see figure and ground images simultaneously.

When R N Shepard drew a conventional ballustrade in which the spaces in between were occupied by a series of identical nudes, he demonstrated the impossibility of focusing on both images at once—it was possible either to see the architectural structure or the girls. A more common example of this is a vase whose outline is made of two profiles. Again, one looks at the profiles and the vase in turn, but not simultaneously.

Colin Blakemore showed the inverted face of a woman who appeared to be smiling. When her face was turned the right way up, the smile emerged as an ugly frown. In this instance the brain combined the reading of an inverted face with a shape that would be a smile had the face been the right way up.

Most classic illusions are static and can sometimes be resolved with the introduction of movement. Horace Barlow demonstrated this with a cut-out triangle patterned with random dots which he placed on a background with the same random pattern. The triangle immediately disappeared. However, as soon as it was moved about, it once more emerged as a triangle.

Illusions associated with movement have their own characteristics. Jonathan Miller, while talking about film, discussed the factors which cohere to create an illusion, such as the spectator's share in supplying links within the discontinuity of shots which move from wide angle to close-up.

Without sound any film appears to consist of staccato interruptions, but even with the accompaniment of sound certain adjustments are necessary to give the final effect of continuity to a discussion on television. As the camera moves from one talking head to another, with an occasional establishing shot which relates the speakers to each other and the setting, the congruence of eyelines is necessary to convince the viewer that the two heads are actually addressing one another

rather than a third party.

As with language, images have two stages. The equivalent to naming in language is the introduction of a visual element; the equivalent of stringing words in a sentence is the construction of visual sequences. If you generally believe that an image may be worth 1,000 words, several arguments were put forward to the contrary. David Lodge explained how much easier it might be to convince someone that a given character is a beautiful woman if one shows her on film, but how

much more difficult it is to comment on what she is thinking.

Jonathan Miller had always claimed that a verbal description may be more evocative visually than a visual image. For instance, "an ungainly figure propelled as if ejected like a bullet" — the importance of his mission proclaimed by the shining proboscis twitching with uncontrollable excitement — is easier to imagine than to depict. Translate this from verbal to visual image and you lose. Description and narrative

in literature follow different sets of rules than they do on film and that is why David Lodge claims that the best novels do not make the best films.

A similar distance may be felt between dance notation and the dance itself. Monica Parker described the system of Benesh dance movement notation which allows any dance to be repeated in the smallest detail. The notator or choreologist records every position and reads it back to the dancers as and when the dance is to be staged again. It is a laborious process. A single

minute of performance requires two hours of rehearsal and hours of notation. Of all systems of pictorial notation this is one of the most exact. The converse is true of diagrams showing athletes sencers how to put on a harness should the sailor on the water. They may be familiar in principle, but Gombrecht did not find pictures as helpful as they need to be to enable him to be confident that he could tape at his side. Of all diagrams presented by different

airlines, only those of Lufthansa seemed to him to be adequate in detail and not unduly frightening in their implications. In general, pictorial instruction is rather outdated and comparatively rare, with the notable exception of some American department stores where every tie is still sold with a sheet of diagrams showing how to tie a Windsor knot or a bow. The problem of pictorial instruction is where description must end and instruction begin. Gombrecht thought that the great classic of the genre still

remains the Diderot encyclopedia. How little visual information is enough? To establish a televisual system through which the deaf can communicate with each other in sign language, Don Pearson was limited in the degree of resolution available to him by transmitting the signals down a telephone cable. In the course of his experiments, he developed a system of producing computer-generated cartoons which can capture the general features of a face, in line with black in-fill, as adequately

as any human cartoonist. A camera scans the face, making an electronic representation of valleys on the surface whose luminance is then translated into lines. A significant way in which these computer-generated cartoons differ from those by artists is that they are much more difficult to decipher when the image is reversed with white lines on black background. Although this particular scanning system may surpass in its efficiency the cartoonists' processes, it appears not to produce

an image that will survive distortion equally. Computers still have surprises to offer. Daniel Dennett thought that in the same way the telescope and the microscope have extended our possibilities to see, the computer has extended our possibilities to think. Slowing down its processes so that each step of its operations is visible on the screen allows one to watch the logical sequence of steps in every transaction. Usually these are the by-products of the process itself. The two major areas of

computer images are: computer graphics — making images using the computer; the computer vision — mimicking what the eye does when it sees images. The first involves manipulation of visual data either generated or processed through the computer. The second involves an interpretation of visual stimuli from the external world.

Modelling sequences of events with computer graphics and animating them can produce surprises. Andrew Witkin has generated images which are endowed with the properties of the materials they simulate: rubber, wire, clay etc. By applying forces to these simulated materials one can see how they would behave within the imposed constraints. Given that the materials and the rules are defined, it is still not always possible to predict how a series of elements will combine in the process of construction of a tower.

The architect, John Lansdown, who has been the moving spirit behind the development of computer graphics in England since the early 60s, discussed two principal methods: drawing pictures into the computer with a light pen, and modelling the image and asking the computer to produce different views of it or variations on it.

One of the easiest ways to achieve spectacular results is to feed a photographed image into the computer and then to manipulate it in various ways. The range of interesting effects which can be applied to images includes slicing, textures, shadows, selective focus, and motion blurring. Technically the system is still in its infancy. Simple digital images have noticeably jagged edges since the requisite resolution to obviate them is not available. Occasionally new leaps are made, such as the Mandelbrot, thanks to which it is possible to generate very convincing irregular landscapes, mountain ranges and plants. The cost of computer graphics at £1,000 per second makes it the most expensive way of making animated sequences. At the moment a single image takes about one hour to create and 25 images per second are needed for animation.

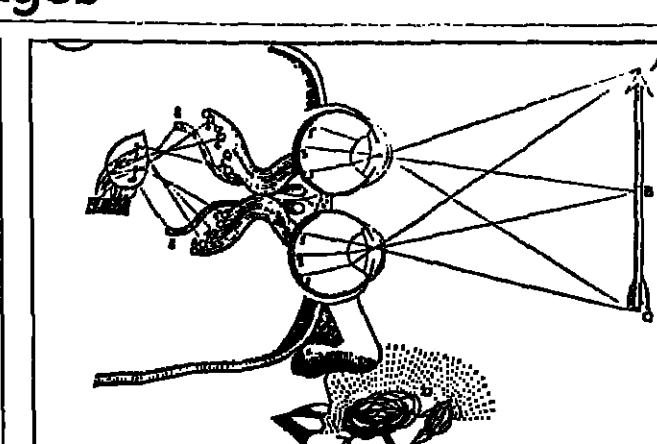
As in all design, computer graphics follow fashion as far as technology allows. According to Lansdown there has been a recent increase in textures and aerial perspective views, although the most common image, which everyone does at least once, remains a teapot. Faces are rarely seen because they are difficult to model. Of the new developments, the improved quality of the simulated photograph is the most significant. One inevitable consequence is that the photograph will lose its status as evidence in court. The method of latering photographs by computer has been perfected to such an extent that faked photographs are readily accessible.

Counterfeit photographs and visibly exaggerated emotions both belong to the visual world of effects. This also includes the repertoire of behaviour displayed by animals. Visual signs of threats and exaggerations in the animal world would do credit to any politician. If the growling and the grimacing of one animal elicits flight in another, the first one soon learns that it might be enough to bare the teeth soundlessly. John Krebs argued that in due course the threatened animal becomes "sales resistant" and the exaggeratedly aggressive behaviour of the first one starts once again.

Sometimes the display can be very approximate, as in the case of the six-eyed jumping spider. With a series of drawn geometric shapes, Michael Land elicited a purposeful response from the spider, which immediately tried to devour them. Another shape which consisted of a circle with six legs provoked the spider to proceed to mate with it.

Humans are also subject to being taken in by approximate displays. Peter Bull discussed the format of gesture and structure in a rhetorical speech designed to elicit well-timed applause. The most paradoxical images are those whose subjects do not exist, even though we have no problems in making their representations. In this context Nelson Goodman referred to centaurs and unicorns. Centaurs exist in the real world as images but not as subjects, as indeed does Don Quixote and Alice, whose portraits are legion. The least concrete of all the images in the world, Goodman claims, are the pictures in the mind. They are, as he put it: "invisible, intangible, and altogether insensible". But paradoxes do not end there. After all, a picture of a picture of nothing is still a picture of something, and a picture of a picture of a horse is not a horse.

To date no research has been reported that deals with individual cells in the brain whose task is to populate our world with concepts of the imagination. Their reality may be paradoxical and intangible, but it would be difficult to find a human being who would put their existence into doubt.



Computer cartoons by DePaulo, Hanna and Kirk Martinez: original photograph; cartoon; computer cartoon; caricature — beyond the computer.

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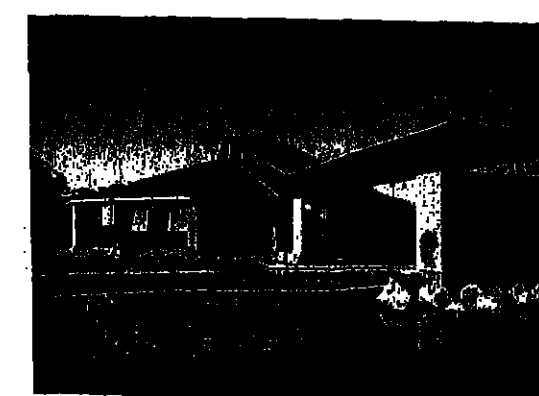
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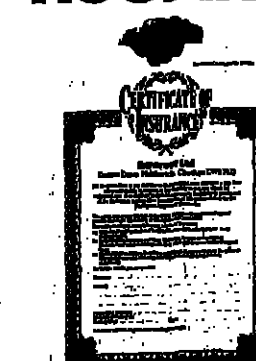
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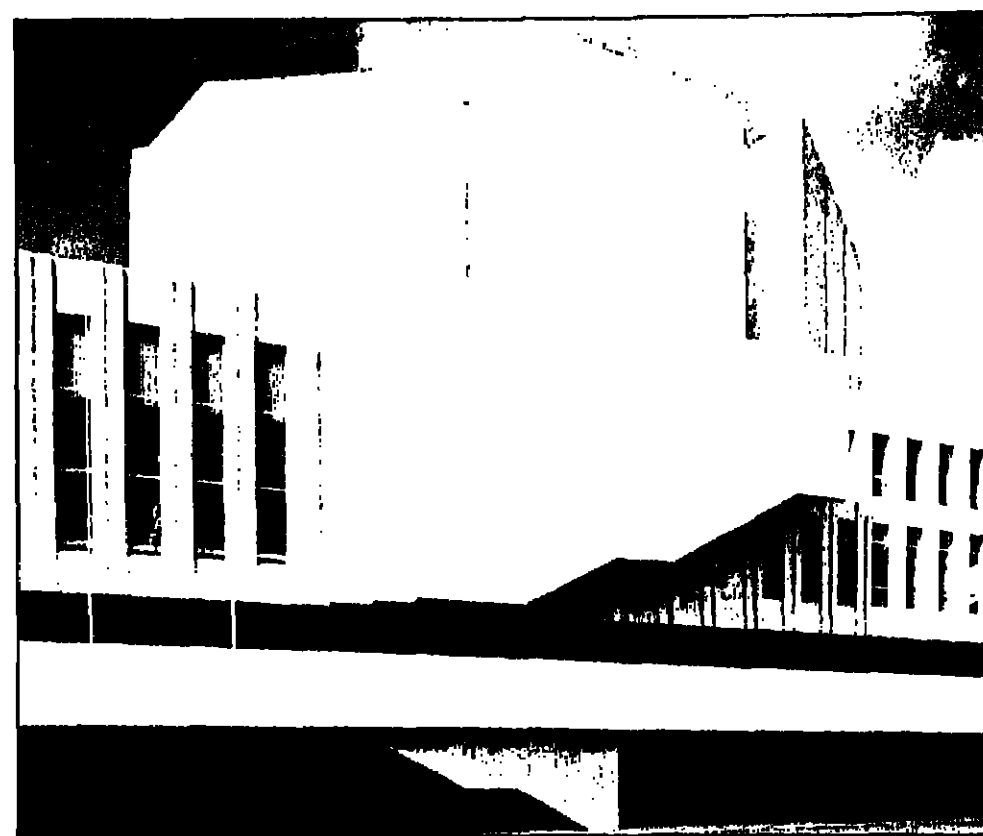
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This table-top setting appears in film in which the viewer floats around and through the objects. Jim Blinn, Frank Crow and Gary Demos are three of the 10 participants involved. These and other teapots were discussed by John Lansdown in his talk on computer graphics.





Aalto's Finlandia hall, 1962-1971.

# AFTER AALTO

Brian Walters reports from Helsinki on a recent competition for the development of part of the inner city.

AS long ago as 1916, a plan for Greater Helsinki was proposed by Eliel Saarinen, which called for filling in a bay that extends into the heart of the city. Much has happened since, but the wedge of land which even then had the splendid city railway terminus at its head remains the subject of much debate.

Finland's capital is a rela-

tively young city, but it is rapidly expanding, both along the Baltic coast, and inland. Many elegant buildings remain to recall the time when the country was under Czarist domination, but its most famous recent construction is the Finlandia congress centre and concert hall designed by Alvar Aalto.

Completed in 1975, the Finlandia hall has been maintained in excellent condition. It lies within the Kampi-Töölönlahti quarter, which includes the "wedge" mentioned previously. Most photographs show the Finlandia hall with its facade reflected in the tranquil waters of the bay — none show the railway freight yard which actually faces the building!

This was to have been removed many years ago, but it remains an eyesore which all agree must go, although there is less agreement as to what should take its place. To stimulate some action in the matter, the city recently held a competition which was open to architects throughout Scandinavia.

In the event there was no outright winner. The selection committee, with the mayor as its chairman, finally selected three equal winners, with some other entries receiving commendations of one sort or another. Entrants had been asked to put forward ideas for the area, which could fit in with the overall city development plan, and it is interesting to note that several followed some of the ideas proposed by Saarinen 70 years ago.

Clearly the presence of the Finlandia building soon to share the waterside park with new opera house, was a major influence on all participants in the competition. But other important factors had to be considered: the railway station and the nearby bus station and the fact that one major road for the north follows the corner of one side of the wedge.

Saarinen's plan called for a long, broad avenue over the area, with blocks of buildings leading off on both sides, and Aalto wanted a square to take the place of the railway yard. Evidently most of the entrants have appreciated the advantages of retaining the "wedge" as an open parkland leading to the heart of the city. Some, however, have agreed with Saarinen's proposal to fill in the bay with both parkland and extensive new buildings could feature in the plan.

One of the winning entries, "Kaunis Uneksija" proposed by Ilmo Valjakka and Kari Kallit, calls for the bay to be enlarged, with a series of

buildings at the water's edge opposite the Finlandia site, and a major road on the east side of the bay entering the city — a relic of the 1916 plan. Although visually attractive, this does pose some technical problems as the rock is in poor condition and would be difficult to seal against water seepage.

Jan Söderlund's "Avoin Sydän II" features a series of low buildings opening out northwards from the main railway station; an hotel, offices, a museum and a theatre not detracting from the elegant lines of the Finlandia building.

"Pro Finlandia I", submitted by Arto Sipinen, also largely retains the wedge as a park area, but the plan includes an interesting piazza which would extend from the present parliament building, to a new structure of equal height to the east. The rather sombre parliament building might be considered by some to be too imposing. Indeed its architect, J S Siren, originally proposed that it should be one of a series of buildings of equal height.

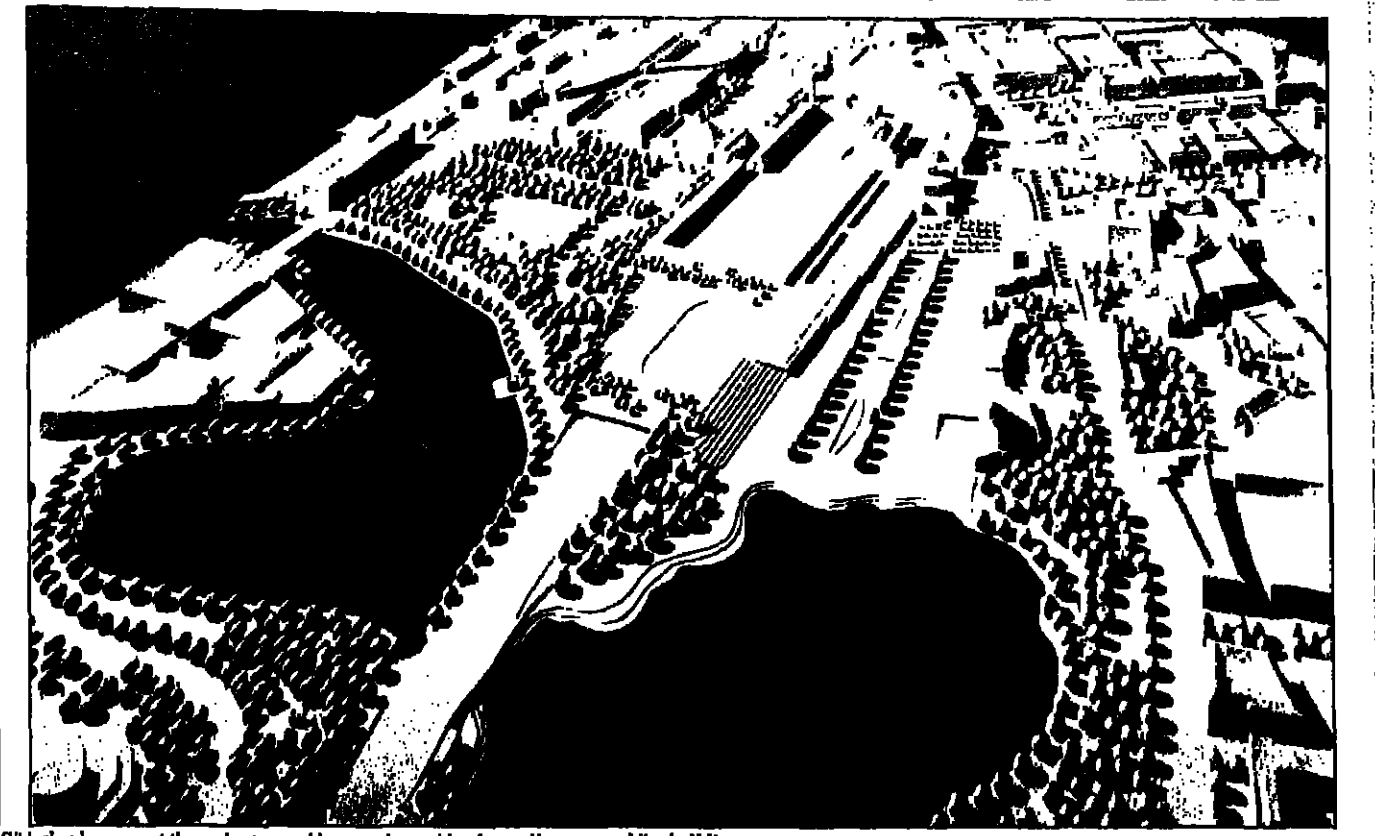
The planned extension of the bay past the Finlandia building and other

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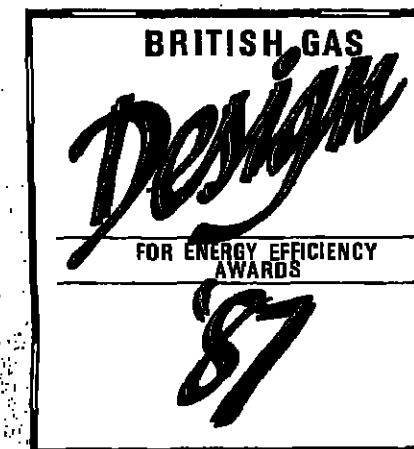
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The planned extension of the bay past the Finlandia building and other



Prizewinner Arto Sipinen's plan includes an underground bus station (foreground) and a piazza. The submission of Jan Söderlund opens out the wedge to provide extensive parkland as well as new public buildings.



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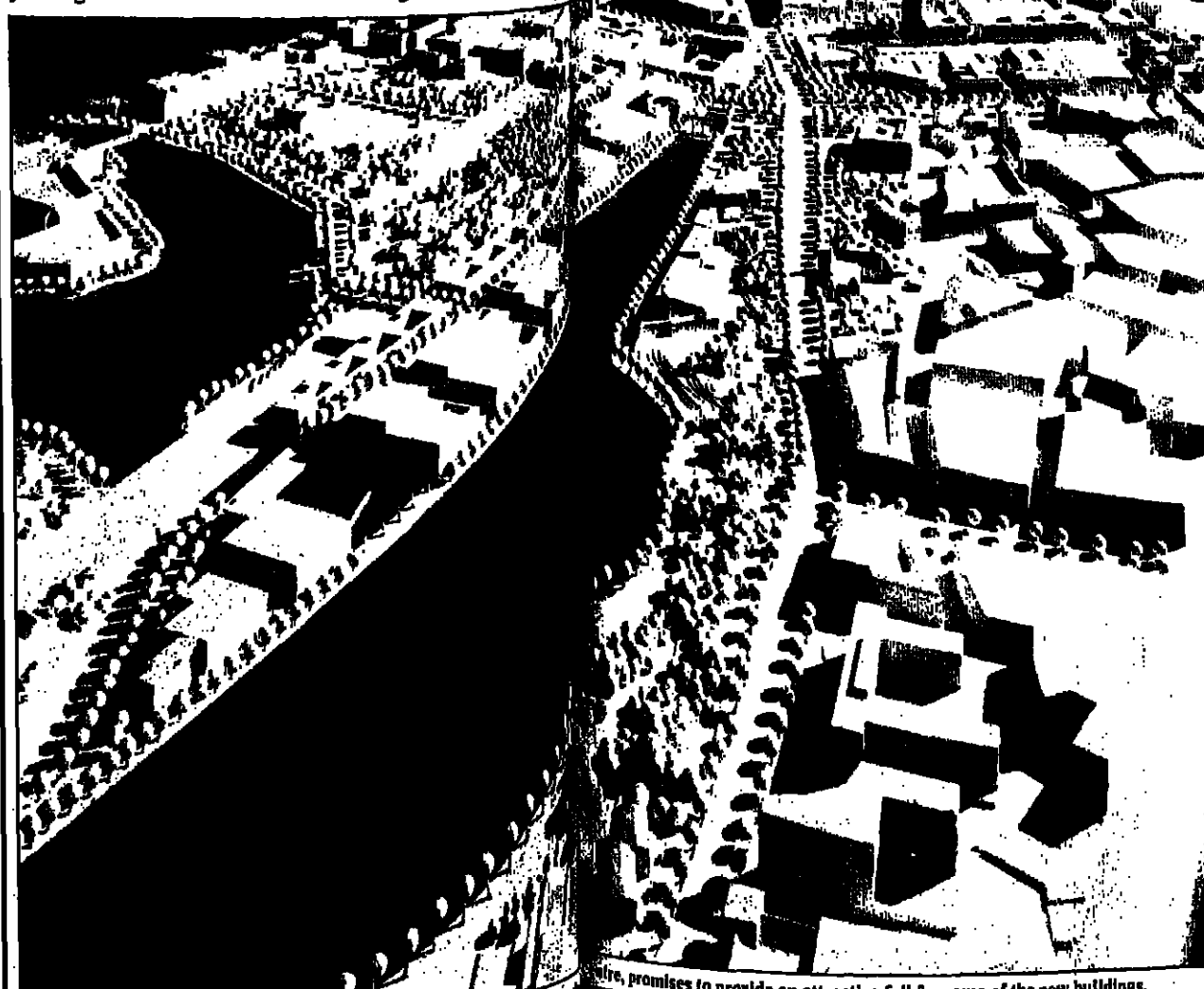
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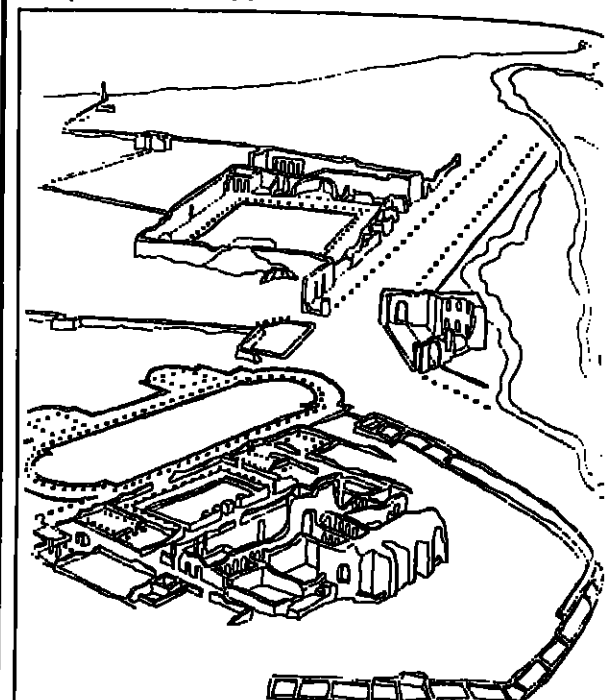
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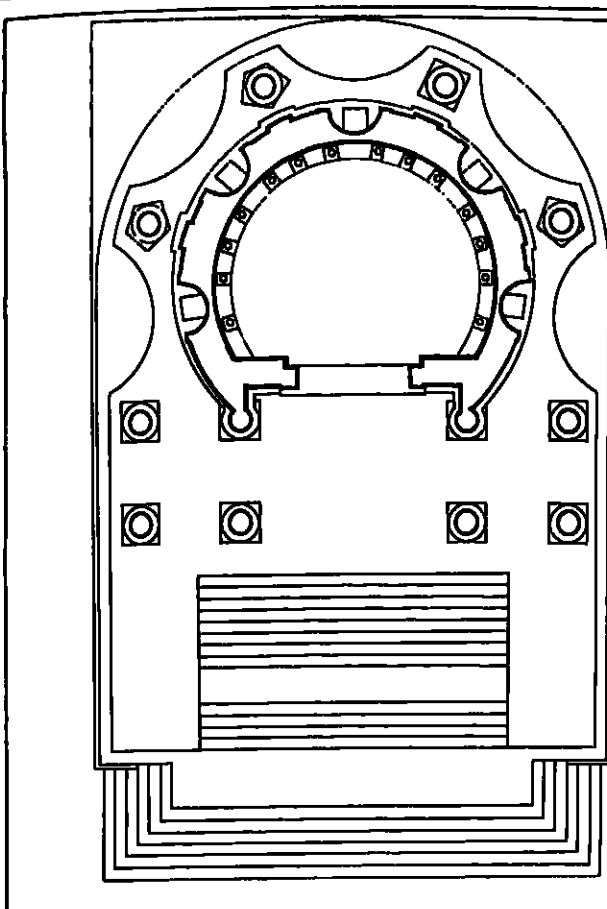
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The long-awaited second volume of William I. MacDonald's complete and penetrating study, *The Architecture of the Roman Empire* (Yale Univ. Press, £27.50) has just been published. The author looks afresh at the accepted models and longer and deeper at the well-known projects to provide one of the most useful studies of ancient town planning for many years.



*Lepcis Magna, sketch of the central district*



*Temple of Venus at Baalbek, probably c third century AD.*

## By Brian Hatton

***A concrete Atlantis - US industrial building and European Modern architecture, by Peter Reyner Bunham (MIT Press, £16.50).***

**EVER** since his *Theory and design in the first machine age*, Reynier Banhum has been telling how, in the modern period of rapid technical innovation, architects have turned to advanced industrial and engineering models in order to derive and ratify radical ideas about form and society.

But while doing so they have repeatedly misunderstood the practical motivations and methods of their mentors, mistaking symbol for substance, and by the time the architects have assimilated these models to their own platonic culture of the "timeless laws of form", the engineers and industrialists have usually moved on to new technologies and novel shapes.

Architecture, in Banham's view, has become a transitional phenomenon between innovation and obsolescence, and if architects are going to continue to build in the real world they will have to run hard to keep up with the technologists. This attitude has provided a theoretical (or at least rhetorical) support to the generation of hi-tech designers who have risen to prominence on the lightweight boosters of Buckminster Fuller and the serene

But times move on, and even the epochal theme of innovation itself has become hoary, while obsolescence — what a recent book called "dead tech" — acquires its own charms. Banham has proved amenable to these charms, and his last book, *Scenes from American deserts*, found him wandering around the wildernesses and wastes beyond civilisation's progressive edge with as much nostalgia

as anticipation. His new book resumes these themes, including the barely suppressed nostalgia he finds its sites amid the made wildernesses of America's decaying industrial cities. Among their deserted mills and abandoned silos he discovers poignant ruins of a lost time—the "concrete Atlantis" of a world whose utopian promises was more a creature of the imaginations of European Modernists than of the practical businessmen and engineers who built them.

As a European settled in America, Banham is sensitive both the myth and the reality of those heroic structures of American industry whose photographic image (and this was the first time in history that a new architectural idea had been propagated by means of photography) so inspired European in the pages of Gropius' *Annals* in the 1913 *Werkbund Jahrbuch*, Corbusier's *Vers l'Architecture*, and Mies van der Rohe's *Sil' l'Epoka*. Realities that these concrete tallness have been taken for granted by Modernist historians, Banham sets out to trace both myth and substance, to describe the historical actuality of the concrete fact and to analyse the appeal and diffusion of its mythic image.

Yet this is very much a personal account, and its attraction lies as much in Bernstein's lively and occasionally poetic response and experience among sometimes dangerously inaccessible monuments of industrial archeology, as in the documentary history or in the theoretical analyses.

Banham claims the book's experiences inspired the book: "that of living in Buffalo, that veritable Rome of North American industry, whose great elevators constitute one of the two building types investigated here. Secondly, that of teaching architecture in a Buffalo building which was a classic example of a "daylight factory," of concrete-framed structure that forms Banham's other thematic type here. The third experience was his encounter on Congress Row, California, with an industrial ruin that embodied the "platonenesses" of these two kinds: the skeletal, Cartesian, and endless grid of the concrete frame, and the closed volumetric masses of the cylindrical silo.

Here it seemed, was the aboriginal Ur-model ("ore" in English) for the structural dialectic of Corbusier's new order of architecture: the "Apollonic" orthogonal grid of point supports, and the "Dionysian" dance among them of the plastic, curving wall of the floor plan. Except, of course, that the curving walls of the elevators themselves were anything but "Dionysian" or "free". Here was one of those points where Corbusier cheated and tried to have it both ways: for it was his principal claim in his *Reminders to architects* (which he illustrated with elevator photos) that "the American engineers overwhelm with their calculations our expirine architecture"

With the surefootedness of a seasoned guide (except where he steps through the rotting timbers of a remote elevator wharf and nearly breaks a leg), Banham takes us on a tour among the backwoods and byways of industrial America which were in fact the heartlands of a technical progress that, Banham claims, has been virtually overlooked by metropolitan architectural historians.

Here we encounter Ernest Ransome, developer of the concrete-framed factory, Lockwood & Green, authors of the superb Buffalo Larkin RST building—12 stories of consummate concrete detailing and long enough to load entire goods trains on the four parallel tracks that run through its ground level. We re-examine the remains of Ford's Old Shop by Albert Kahn, and wander among the heroic works of elevator pioneers such as Max Toltz, steel forerunner, and Frank Peavery and Charles Haglin, who invented the classic concrete silo in Minneapolis.

Amid all this, Banham does not withhold from his personal accounts an elegiac note, as of encountering the awesome ruin of lost civilisation, redolent in the very names of the Buffalo hulks — Connecting & Terminal, Washburn-Crosby, Kellogg, Cargill Electric, Cargill Superior, Lake & Rail, marine A, and, most stupendous of them all, Concrete Central. Of the much photographed and published Washburn-Crosby (the fulfilment, Mendelssohn wrote, home from his visit in 1927 to Buffalo, of all his "silo dreams"), Banham makes the remarkable claim that it may well be the most internationally

influential work of buildings ever erected in the New World. In examining this influence, Banham explores two gaps in the Modern Movement's ideological foundations. First, the gap between the reality of the American industrial building, which was certainly rational, but only in a conservative, practical, and empirical way, and the myth of the super-rational engineer created by the European Modernists at long range; and by virtue of rainy photographs. In this myth, the distant silos and factories were projected as arising from the native and natural genius of a new kind of noble savage.

Here, following the theories of Wilhelm Worringer, the new spirit of artless but absolute calculation coincided, like a meeting of opposite extremes, with that of primitive man's urge to abstraction, the exemplar of which was the Egyptian pyramid. Worringer wrote in his book on Egyptian art: "What you regard as the ultimate metaphysic of form is merely the Americanism which otherwise you so much despise."

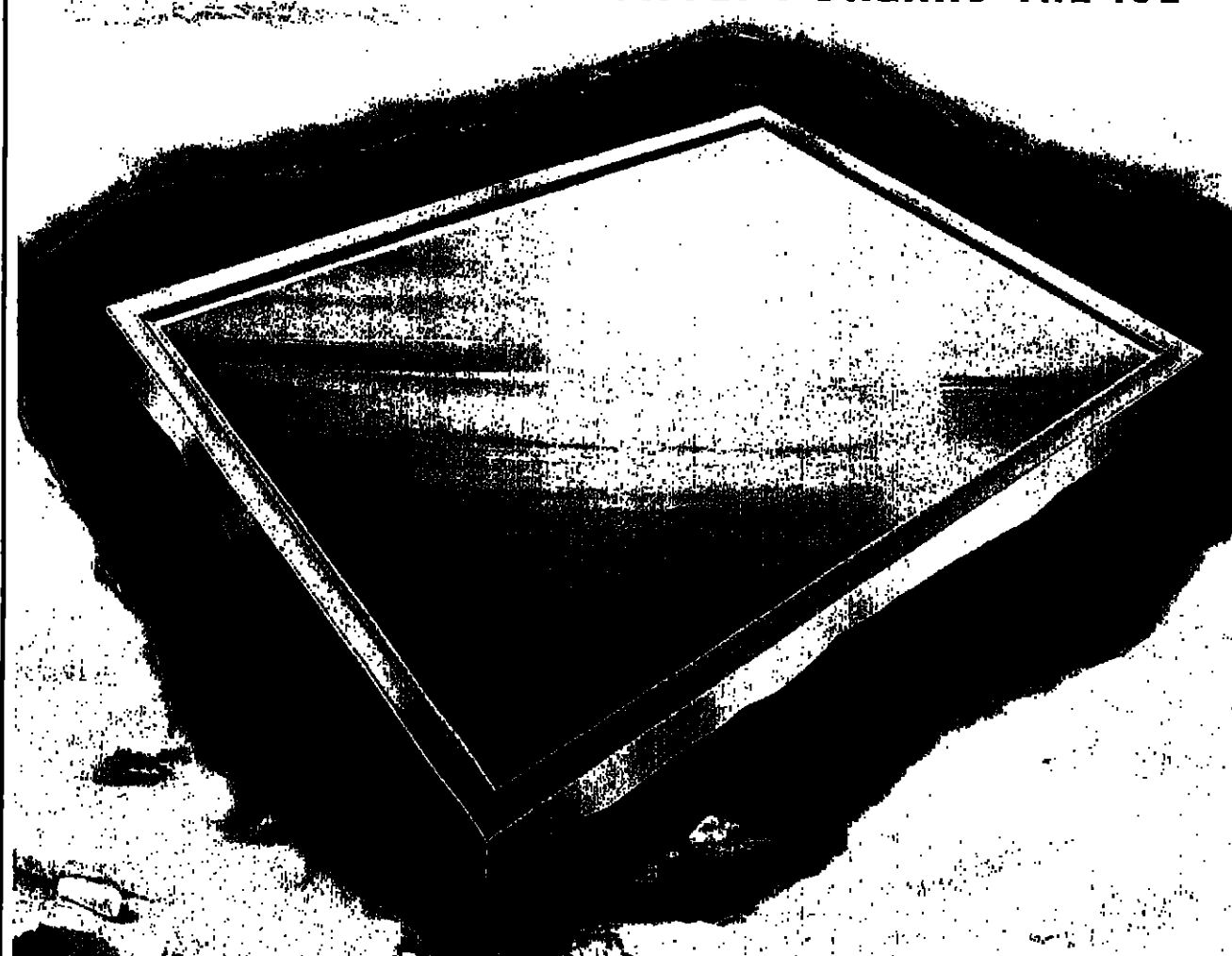
The second gap was between these mythic claims for absolute rationality and the modernist actual buildings. Banham revisits the Fagus factory and the Fiat Lingotto car plant to compare them with the American examples. At Fagus, he finds all kinds of non-utilitarian architectural sophistications that Ransome would never have dreamt of including in the factory he designed for United Shoe Machinery Company at Beverly, Massachusetts, which was the company that leased the patents to Karl Benscheidt for Fagus, and which he visited before hiring Gropius.

Finally, at Lingotto, that ultimate Americanism, Banham tries to settle the conflict between his own emotional reactions to a structure that, while absolutely stunning as a symbol and vision of a new cultural order — a vision to which Banham gives full scope in finishing his book with a translation of Edoardo Persico's intoxicating and poetic encomium of the factory of 1927 — and his reflection that, by the standards of most of the other American buildings of the time, it is as the widenspan singletorey sheds adopted by Kahn at Ford's new River Rouge plant, the Lingotto plant was, on the day of its opening, obsolete.

This architectural sketch depicts the archaeological site of Tell el-Fara. It shows a complex of structures, including a large temple complex on the left, a smaller structure labeled 'Temple of the Lion' (Temple of the Lioness) in the center, and another structure labeled 'Temple of the Lioness' (Temple of the Lioness) on the right. The sketch includes a scale bar at the bottom indicating 0, 10, and 100 meters.

*Axonometric view of the principal street at Palmyra*

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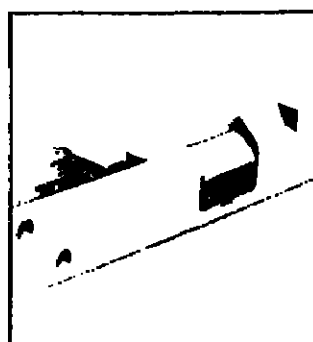
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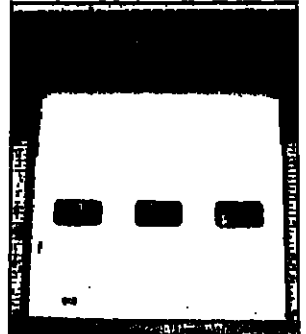
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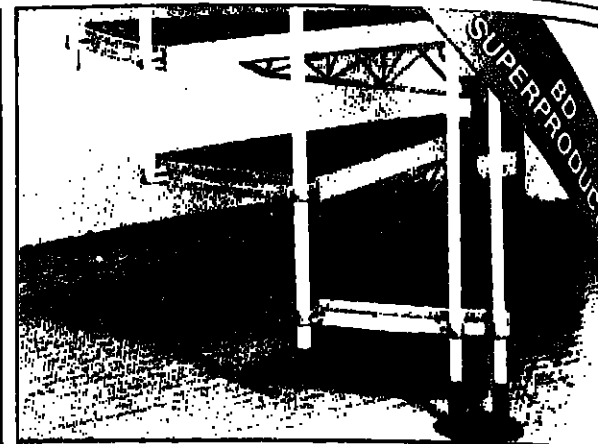
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There is only a small tolerance between a bolt and its hole. If mistakes are made and it is found that steelwork delivered to site does not fit, then (to a mixture of bitter recriminations and signs of relief) it is usually possible for modifications to be agreed and undertaken on site, for example by cutting bits off or welding other bits on.

## REFERENCES

BS 5930: Part 2. Specification for materials fabrication and erection of hot rolled sections. BS 5931. Code of practice for safety in erecting structural frames. BS 5930. Code of practice for the safe use of cranes. Health & Safety Executive Guidance Note 28. Safe erection of structures.

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British Constructional Steelwork Association, 22 Old Queen Street, London SW1 01-222 2284. The trade association for those who are substantially engaged in the design fabrication and erection of constructional steelwork. Its members account for over three quarters of the industry's capacity. It will supply a list of members and its publication list. Engineering Institute, Watford, Herts. Watford 36441. Welding Institute, Abington Hall, Abington Cambridge, 10223 891182. National Engineering Training Association, Pennine Avenue, Portrack Lane, Stockton-on-Tees, (0642) 618936.

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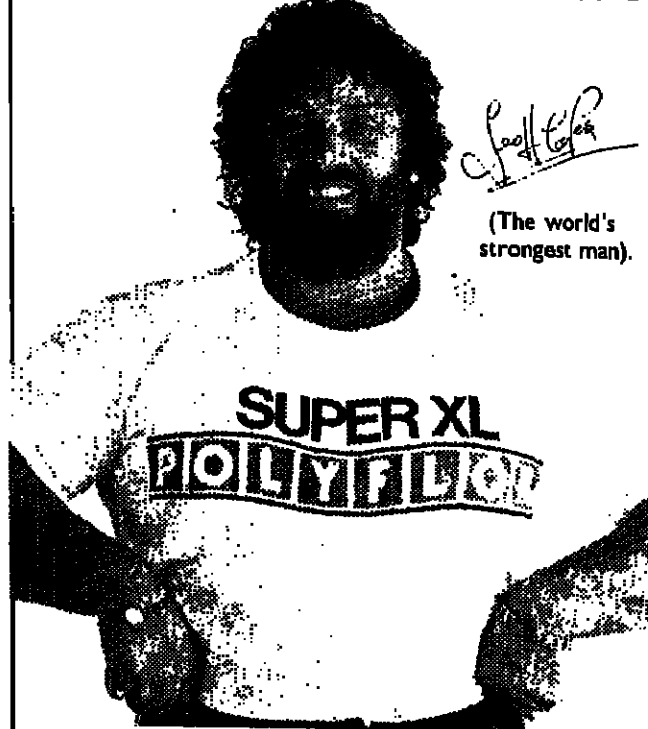
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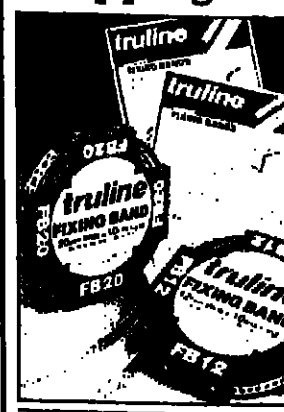
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AVAILABLE in two sizes, the Fixing Band from Truline Building Products has a multiplicity of uses. Both are supplied in 10m coils. Both are made from galvanized steel. The heavier banding is 30 gauge and 20mm wide. It can be used for strutting between joists, bracing roof trusses, reinforcing brickwork, suspending cladding for general repair work. The second size is 22 gauge and 12mm wide and is used for lighter fixings.

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## Poly patent glazing

SPECIALLY developed for use with polycarbonate sheet glazing, Hemptested patent Glazing's new Hemptested HPP glazing system has no aluminium-to-aluminium contact, thus improving insulation. This complements the benefits which can be gained from using double-skin polycarbonate glazing. In addition the new system has specially designed EPDM gaskets which enable 10mm or 12mm sheeting to be used with the same sized glazing bar.

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## CHECKPOINTS

On most projects the details will be worked out by either the steel fabricator or by the project's structural engineer — but there are points for the building designer to be aware of.

## ACCURACY

There is only a small tolerance between a bolt and its hole. If mistakes are made and it is found that steelwork delivered to site does not fit, then (to a mixture of bitter recriminations and signs of relief) it is usually possible for modifications to be agreed and undertaken on site, for example by cutting bits off or welding other bits on.

It is recognised that it is generally impracticable for steel erectors to wear safety harnesses, but they should wear special footwear, such as the 'ladder shoe', which comes half-way up the calf, has a steel toe-cap and non-slip soles. Hard hats should also be worn.

Steel erection should not take place in high winds, heavy rain, or when there is ice or snow, or poor visibility. Welding should not take place when there is ice or snow. (If welding is taking place during very cold weather special welding rods may be necessary.)

Framework erection should take place in daylight. If artificial lighting is used there are stringent requirements on what needs to be in BS 5531: 1978.

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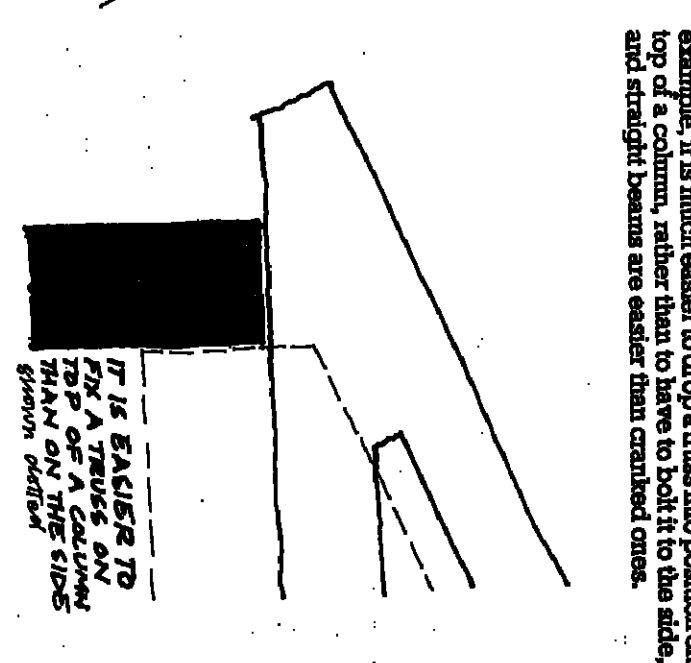
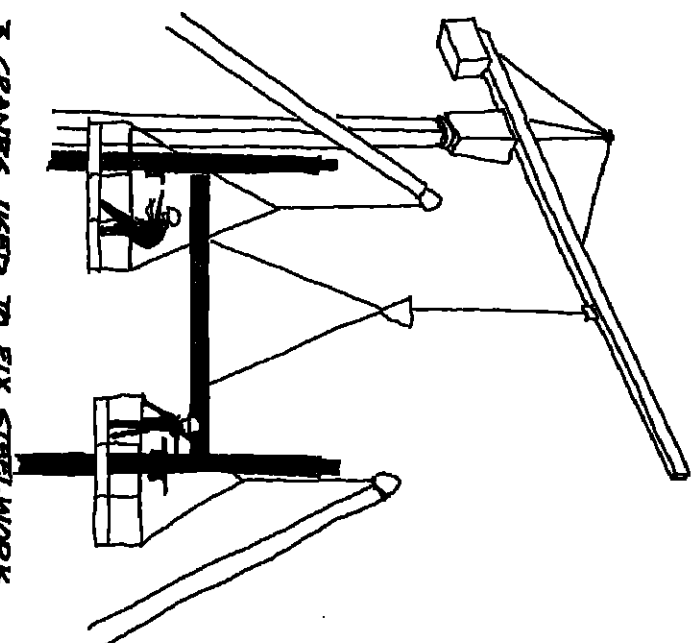
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IT IS EASIER TO FIX A TRUSS ANY TOP OR ON THE SLOPE THAN ON THE FLAT

When ladders are used they have to be securely fixed top and bottom and to have a man at the bottom when another is climbing. Erection from ladders is frowned upon.

These days it is becoming increasingly common for a beam to be fixed by having two smaller secondary cranes with cradles containing the riggers at either end of the beam, which itself is being held in place by a third larger crane.

The accuracy of the setting out of the foundations needs to be very carefully checked, because errors are difficult to correct.

Although the steel fabrication company will decide which type of crane will be needed and where it should be positioned, understanding may need to be provided for the crane and this should be discussed when the drawings are being prepared.

When designing a steel-frame building, try to design something that is simple and easy to put together. For example, it is much easier to drop a truss into position on top of a column, rather than to have to bolt it to the side, and straight beams are easier than cranked ones.

The accuracy of the setting out of the foundations needs to be very carefully checked, because errors are difficult to correct.



## Dateline

Items for consideration must be received 10 days prior to publication

## This week

Monday — Wednesday  
Recent developments in fire  
detection and suppression, seminar  
organised by UnivEd.  
Venue: University of Edinburgh.  
Details: 031-667 1011 (ext 6742).

Tuesday  
Approaches to the new museum,  
lecture by Colin Amery,  
architectural correspondent for  
The Financial Times.  
Venue: Reynolds Room, Royal  
Academy of Arts, Burlington  
House, Piccadilly, London W1.  
Details: RAA, 01-734 9052.

Tuesday  
Desk-top micros in energy  
conservation, a "hands-on" course  
for technical officers in local  
authorities.  
Venue: Computer Centre,  
Polytechnic of the South Bank,  
Borough Road, London SE1 0AA.  
Cost: £55 except to members of the  
local authority energy service who  
can deduct 25 per cent.  
Details: Centre for Energy Studies,  
South Bank Polytechnic, 01-928  
8989.

Tuesday  
Arctic city: covered townships in  
cold climates, lecture by Derek  
Croome.



Until November 20 Travels in Graham Greene country. Venue: Francis  
Kyle Gallery, 9 Maudslayi Street, London W1R 9LE. Open 10am to 6pm  
weekdays, Saturday 11am to 5pm. Details: 01-499 6870.

Venue: The Huntingdon Centre,  
The Vineyards, The Paragon, Bath  
BA1 3NA, 6.15-8pm.  
Cost: Admission £2, concessions  
£1.  
Details: (0225) 333895.

Tuesday  
Promote your practice through  
print, a one-day conference on  
graphics and reprographic  
techniques.

Venue: RIBA, 66 Portland Place,  
London W1.  
Details: RIBA, 01-580 5533.

Tuesday  
Professional indemnity and liability,  
practice evening organised by the  
Glasgow Institute of Architects.  
Venue: Royal Scottish Automobile  
Club, Blythswood Square,  
Glasgow. 5.30 for 6pm.  
Cost: £1.

Details: M Piggot, 041-332 7030.

Wednesday  
Materials in buildings, a meeting  
organised by the Materials Science  
Committee of the Institute of  
Metals.  
Venue: Bristol Polytechnic, Bristol.  
Details: Juliet Upton, 01-839 4071.

Wednesday  
London's underground upgraded,  
lunchtime seminar organised by  
DIA. Speaker is Mike Stollery.  
Venue: Griffin Rooms, 49 Pelham  
Square, London SW7. 12.15pm.  
Details: Nell Chamberlain, 01-940  
4925.

Wednesday  
Quality assurance — the  
implications for health & safety at  
work, seminar organised by the  
CIBSE Lighting Division.  
Cost: £15 plus VAT for CIBSE  
members, £20 for non-members.  
Details: CIBSE Conference  
Department, 01-675 5211.

Wednesday  
De-suburbanisation, lecture by  
John Burrell of Burrell Foley  
Associates.  
Venue: The Polytechnic of Central  
London, Marylebone Road,  
London W1. 6.15pm.  
Details: Len Harris or Lawrence  
Revill, 01-225 1234 (ext 3270 or  
3274).

Thursday  
Expert systems for construction and  
services engineering, seminar  
organised by the Construction  
Industry Computing Association  
and BSRIA Computer Centre.  
Venue: Conference Suite, Raden  
Powell House, Kensington,  
London.  
Details: CICA, Guildhall Place,  
Cambridge CB2 3QQ.

Thursday  
The hand that draws, lecture by  
Alan Phillips.  
Venue: White Box lecture theatre,  
School of Architecture, Hie  
Centre, Notte Street, Plymouth.  
Devon PLY 3AR.  
Details: (0752) 264645.

Thursday  
Lecture by Peter Rice of Ove Arup  
& Partners.  
Venue: Meeting room at the  
Linnean Society, Burlington  
House, Piccadilly, London W1.  
Cost: £1.50, concessions £1.  
Details: RAA 01-734 9052.

Friday  
The conservation of medieval  
church monuments, seminar  
organised by the University of  
Bristol.  
Venue: Burwalls House, Leigh  
Road, Bristol.  
Cost: £12.95.  
Details: Bernard Lane,  
Department of Extra-Mural  
Studies, (0272) 303620.

Details: 01-839 8000.

Until November 20  
Metalwork and jewellery, by  
Alistair McCallum.  
Venue: Crafts Council shop at  
Victoria & Albert Museum, S.W.  
Kensington, London SW7.  
Details: 01-589 5070.

Until November 28  
Site visits: images of the building  
process, exhibition of the design  
and watercolours by Boris An  
award winner, Tabatha Salma  
Venue: The Building Centre  
Gallery, 26 Store Street, London  
WC1E 7BT.  
Details: Stephen Gash, 01-706 11

Until November 29  
Exhibition of recent paintings  
Martin McGlin.  
Venue: Curwen Gallery, 4  
Windmill Street, Charlotte St,  
London W1. Tuesday-Friday  
10am-6pm, Saturday 11am-4pm.  
Closed Sundays and Mondays  
Details: Curwen Gallery, 01-493  
1459.

Until November 29  
Sackel, exhibition of his  
paintings, drawings, watercolours,  
engravings and tapestries.  
Venue: Briton Gallery, Bruton  
Somerset.  
Details: Briton Gallery (0745)  
812205.

Until January 1  
The Mobil design award formal  
fringe, exhibition of entries.  
Venue: The Design Centre, 28  
Haymarket, London SW1.  
Mondays and Tuesdays 10am-6pm,  
Wednesdays-Saturdays  
10am-8pm, Sundays 1-6pm.  
Details: 01-839 8000.

Until January 18  
Paintings and their context: Nic  
Prussin — Venus and Mercury.  
Venue: Dulwich Picture Gallery,  
College Road, London SE21 7AD  
Details: 01-693 5254.

## Coming soon

November 17  
Quality assurance, one-day seminar  
organised by the Building  
Maintenance Cost Information  
Service of the RICS.  
Venue: Royal Institute of  
Chartered Surveyors, 12 Great  
George Street, Parliament Square,  
London SW1.  
Cost: £80 per delegate (plus VAT  
£70) to subscribing members of  
RICS.  
Details: Lindsay Pullen at RICS,  
87 Clarence Street, Kingston-upon-  
Thames, Surrey KT1 1PB. Tel: 01-  
546 7555.

## Exhibitions

November 10-29  
Built-up areas: urban landscapes  
from the Arts Council collection.  
Venue: Atkinson Art Gallery,  
Southport.  
Details: (0704) 33133.

November 10-25  
Waterfront, exhibition of young  
people's work concerned with the  
visual relationship between  
buildings and water.  
Venue: RIBA, 66 Portland Place,  
London W1.  
Details: RIBA, 01-580 5533.

November 12-December 3  
Timber in architecture, exhibition  
organised by the Museum of  
Architecture, Oslo.  
Venue: Strathclyde University,  
Exhibition Gallery, Department of  
Architecture and Building Science.  
Details: Dag Mork Unles, Consul  
General, 031-226 5701.

November 12-December 19  
CAD Microcomputers and design,  
exhibition.  
Venue: Design Centre, 28  
Haymarket, London SW1.

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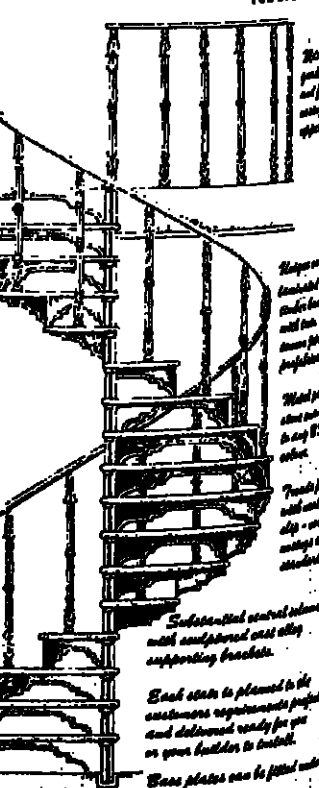
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We work a 4 day 35 hour week, with flexible hours.

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60 Kingly Street  
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NORTH HERTFORDSHIRE  
DISTRICT COUNCIL

Technical Services  
Department

Two vacancies exist within the Architectural Division, the successful applicants becoming members of a busy, experienced, enthusiastic, award winning team, producing programmed new-build schemes for housing and sundry public buildings.

At senior level, projects are taken from inception to final account stage, the lower grade post can carry the same scope but at reduced scheme values and complexity.

The Division provides the full range of Architectural Services to the Council.

## Senior Architect 5414

PO £11,962-£12,894 per annum

Registered Architect preferably with RIBA, First Class designer, minimum of 4 years post qualification experience with emphasis on new development work, able to work to deadlines.

## Higher Technician (Architectural) 5415

SE/SO1: £9,613-£11,271 per annum

Applicants should have a minimum of 4 years experience since obtaining the Part 1 RIBA examination or becoming members of the British Institute of Technicians (BIT). Must be capable of providing clear, accurate production information and have a sound knowledge of traditional building construction.

Posts are open to men or women.

- |                          |                      |
|--------------------------|----------------------|
| * Flexible working hours | * Housing considered |
| * Car allowance          | * Legal expenses     |
| * Assisted car purchase  | * Lodging allowance  |
| or leasing scheme        | * Removal expenses   |

Particulars and application forms for return by 28th November, 1986 from the Director of Technical Services (Ref. JDS). Council Offices, Garton Road, Letchworth SG6 3JF. Letchworth 886500 Ext. 271.



## T. HOULIHAN &amp; ASSOCIATES

Architects &  
Architectural  
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Busy practice with varied workload requires Architects and Architectural Technicians with a minimum of five years' experience.

Top salaries paid related to ability and experience.

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Mrs. J. Huggill

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Yeoman House

63 Croydon Road

London SE20 7SJ

Tel: 01 778 3948

## DEPARTMENT OF HOUSING AND ARCHITECTURE

## ARCHITECT

Salary SO1/PO (33-36) £10,569-£12,894

There is a vacancy for an enthusiastic Project Architect with good design and presentation skills in the Architect's Division of the Department of Housing and Architecture. This post offers an excellent opportunity in a busy small office engaged on a wide variety of local authority projects, chiefly in the field of housing covering both new-build and rehabilitation.

Applicants should preferably be able to show successful sensitive design achievements within a conservation area context, and be suitably experienced in the day to day running of contracts.

A system of flexible working hours is operated and the post carries a casual user car allowance. Temporary housing accommodation may be available to the successful applicant, and a scheme offering a generous relocation package is available in approved circumstances.

A detailed job description and further information is obtainable from the Personnel Unit, City Offices, Colebrook Street, Winchester SO23 3UL.  
Telephone 66186, ext 2131.  
Closing date for applications:  
28th November 1986.



CITY COUNCIL

Brent Development  
ArchitectsA MAJOR NEW INITIATIVE IN PROPERTY MANAGEMENT  
ARCHITECT/SURVEYOR  
PO2A

£14,862-£16,011 p.a. plus £1,183 L.W. and supplements

The Council has recently made a major financial commitment to the adaptation and improvement to over 600 buildings including schools, libraries, etc. and are looking for an experienced professional to manage this exciting new initiative and ensure that our considerable investment in our building stock is effectively planned. Your job will be to develop our property data base and co-ordinate all adaptations and improvements to our existing property. You should have a wide experience of building and a particular interest in their improvement and adaptation together with a logical and systematic approach to problem solving.

Given the multi-racial and multi-cultural composition of Brent, it is desirable that the person appointed will have an understanding and sensitivity to the needs and aspirations of the communities and also be responsive to their building-use needs with particular reference to the Afro-Caribbean and Asians.

You must be qualified to either RIBA Part III, RICS Part III or equivalent professional qualification, or have a minimum of ten years practical experience with some of it on large and complex projects, such as schools and social services buildings. You should be familiar with Building Regulations and forms of building contracts. You must be able to initiate and maintain a good relationship with Clients, who are other departments of the Council, and be capable of managing architectural and surveying staff and ensure that projects are designed, programmed and cost controlled within the clients brief.

Brent is an Equal Opportunity Employer. Applications are welcome from candidates irrespective of race, nationality, ethnic or national origin, age, marital status or gender and from disabled persons and gay men.

Application forms and job descriptions from the Personnel Division Room 1 Brent Town Hall Annex, Kings Drive, Wembley, Middlesex HA9 8BR, returnable by 10th December 1986. Telephone 01-903 0371 (24 hour Answerphone service). Reference number D/370 must be quoted.

London Borough of  
**BRENT**

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# APPOINTMENTS

**MARRISON RECRUITMENT LIMITED**  
46-48 London Road, Twickenham, Middlesex TW1 3RG  
Telephone 01-891 0891

We are employment consultants who specialise in the placement of architectural, permanent and contract personnel. We have vacancies for Architects/Technicians and Architects in London and Home Counties. For further details please phone Martin Morrison or Karen Spencer.

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**ROBERT MACDONALD ASSOCIATES**

Have opportunities for an  
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and  
**SENIOR TECHNICIAN**

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**ARCHITECTS & SENIOR TECHNICIAN**  
required for a wide range of projects.  
For further details ring Bob Downing  
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To take over our technical library from 3 January 1987.  
This library serves a lively rapidly expanding office.  
The post is for a permanent member of staff. There is a congenial working environment in modern air conditioned offices. Salary by negotiation.

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Civic House, 156 Great Charles Street  
Birmingham B3 3HN  
Tel: 051-233 4474

**REGIONAL ARCHITECTS DIVISION**  
**TECHNICIAN I - III/  
TECHNICAL OFFICER**

Salary scale £5,892-£13,379 pa  
(grade according to qualifications and experience)  
A vacancy has arisen for a Building/Architectural Technician to work on the development and documentation of the Authority's revised regionalised system of construction. The postholder will require an aptitude for building construction detailing, an interest in the use of computer drawing systems would be an advantage. Training in the use of such systems will be provided.  
Applicants should have at least an ONC in building (or equivalent) together with a minimum of 2 years office experience. Above all we are looking for someone willing to learn as the job develops.  
For further details and application form please contact the Recruitment Officer at the address below quoting Ref. No. V193/86.  
Closing date: 21st November 1986.

**Oxford Regional Health Authority**  
Old Road, Headington, Oxford OX3 7LF.  
Tel: Oxford 64861. Ext 228/268

**ARCHITECTURAL TECHNICIAN**  
(Ref BD/U.114) £10560-£11971

**JUNIOR ARCHITECTURAL  
TECHNICIAN**  
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Required to join a small group of architects and technicians: projects are varied and include large refurbishment schemes for existing Council housing estates, new housing and sports pavilions.

The persons appointed will normally assist one of our two Architects and be expected to take a large measure of responsibility commensurate with their experience. They will be expected to produce detailed working drawings and his specifications with the minimum of supervision together with detailed service layouts not handled by a Services Engineer. They will also be expected to act as Supervising Officers on suitable projects.

Relevant RICS/HND etc qualifications are required. An interest in computers would be an advantage.

For an application form, please telephone our 24 hour answering service on Basingstoke (0256) 479443, or write to the Personnel Manager, Civic Offices, London Road, Basingstoke, Hants, RG21 2AJ, by 21st November 1986, quoting the job reference in either case.

**BASINGSTOKE &  
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**THE WARE  
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**ARCHITECTS AND TECHNICIANS**

to work in their Beckenham office on interesting and varied projects, in particular for the broadcasting industry. Salaries to be negotiated, commensurate with experience.

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The Interior Designer will have a minimum of 4 years experience and a thorough understanding of the design processes to produce the right solutions.

The Architect will be required to take charge of a variety of interesting projects and be capable of controlling and co-ordinating the work of a small busy office.

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Suitable applicants will have a minimum of the last 8 years experience in Residential Development covering the following disciplines:

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Applications in writing with details of career to date, salary and experience to:  
**PEAK HOUSING LIMITED**  
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**CITY ARCHITECT'S**

**Architect  
Site Supervisor**

SO2/PO2 £11,804-£13,863. Ref CABB  
HOUSING DIVISION

An experienced architect is needed to assist in supervising staff engaged on and contributing to housing refurbishment schemes, ranging from individual house improvements to large scale inner-city renewal projects, forming part of the City's major re-investment proposals for its housing stock. You must be able to demonstrate a flexible and versatile approach to contract management and supervision, together with a commitment to implementing the policy of tenant participation.

For an application form and job description, telephone 061-234 4288, quoting the reference no. Closing date 21/11/86.

The City Council operates a Union Membership Agreement under which new employees are required to become a member of a recognised Trade Union.

**MANCHESTER  
City Council**  
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*Drawing on your  
design experience is  
only the beginning  
Principal Architect*

If you're the kind of Architect who is completely fulfilled behind the drawing board, then this role is not for you, as it requires far wider-ranging personal and managerial skills as well as solid architectural expertise.

Responsible for the organisation and management of the Architectural and Quantity Surveying Sections, you'll need to possess excellent interpersonal skills to get the best out of your team. Added to that, is responsibility for allocating and organising the work programme; supervising all building projects and ensuring work complies with regulations and codes of practice; offering technical and architectural advice.

You'll obviously need good organisational and managerial skills to be a worthy candidate, suitably qualified and experienced with proven design ability developed in public or private practice. However, we'll also be looking for commitment, self-motivation and a desire to succeed in this challenging role.

This position represents the ideal opportunity for you to broaden your experience. In return the successful candidate can expect an excellent benefits package including 35% hour flexible working week, council accommodation, car allowance and purchase scheme and full relocation expenses to the Lake District - an area which enjoys some of the finest scenery in Europe. Salary is on a scale £13,653 - £14,862.

For further information male and female candidates should contact Raymond Woods, Consultant, on (091) 261 4044 (office) or (091) 489 2231 (evenings/weekends after 7.00 pm); or write to him at Austin Knight Selection, Erick House, Access Square, Newcastle, Tyne and Wear, NE1 8ER quoting ref. no. NS110.

**Austin  
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**SENIOR ARCHITECT**  
with experience in industrial architecture and  
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Please write with CV to Farmer and Dark  
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Estates Department

**Senior Building Officer**  
£9,288-10,751 + Bonus, currently 13%

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Must be suitably qualified HNC (Building) or equivalent.  
Apply in writing to Mr P J Roberts, Northampton Health Authority,  
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Closing date: 21 November 1986

**ROTHERMEL COOKE**  
are looking for  
**ARCHITECTS &  
SURVEYORS**

with  
**solid experience on existing buildings of all types.**

Please write with CV to  
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We are also seeking a architectural assistant  
(minimum part II qualified).

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required by busy Architects practice in Abingdon, Oxfordshire. Applicants should be quick accurate draughtsmen, fully experienced in the design of roads, sewers and ancillary services for residential, industrial and office development. They should also be experienced in Section 18/38 Agreement procedures, in negotiating with district and service authorities and in working with developers.

Apply in writing to:  
Mr R J Tattersall, Administrator  
John Spratley & Partners  
31 Edmund House  
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Abingdon, Oxon OX14 5BW



**ARCHITECTURAL TECHNICIAN**

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Good salary and conditions to the discerning candidate who is self-motivating and competent.

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Mark Scott Construction Limited  
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Beaconsfield, Buckinghamshire  
HP8 2PD. Tel No: (04948) 78484



**MALCOLM LOVIBOND + ASSOCIATES**

are looking for a

**YOUNG ARCHITECT**

with ability and enthusiasm to work on a variety of projects in a lively office dedicated to high standards.  
Please apply in writing with CV to:  
Malcolm Lovibond + Associates  
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**Senior  
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Project  
Architect**

**Architectural  
Technician**

**BRISTOL**

The Pearce Contracting Group holds a prominent and successful position in the Construction and Development markets throughout the South West of England.

Based at the Head Offices in Bristol, the Architects' Department, one of the largest in the area, has several new opportunities for experienced architectural staff. Successful applicants will join teams working on a diverse range of new commercial, industrial and Design and Build contracts.

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Please contact Mrs Allison Linford, Group Personnel Manager.



# APPOINTMENTS

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Send C.V. or Call  
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271 King St. W6 9LZ

**Assistant To  
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Attractive Salary + Car

The opportunity exists for an experienced technician to join a newly formed internal design department of a major housing developer. The company have regionalised their operations and require persons to be responsible for Kent/Sussex or the Hampshire area. At present the company is situated in Kingston but is relocating to Thames Ditton within the next few months.

Candidates should have a proven track record in housing developments, be self motivated and ambitious. He/she should be capable of working in a small team environment and able to contribute to their continued growth.

We have prepared a comprehensive job specification and client profile which we shall be pleased to send to suitably experienced candidates. In the first instance, please phone Alan Donnelly on 01-624-1044 quoting reference 1098AD, or write in confidence to Trojan Recruitment Services, Forest House, 166-168 Station Road, Chingford, London E4 6AN.

**Trojan  
Recruitment  
SERVICES**

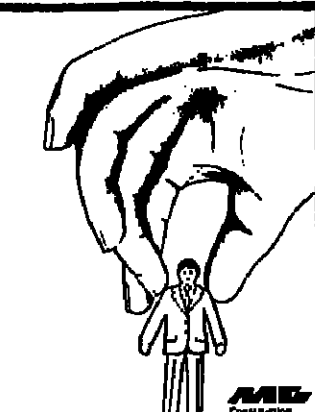
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**ARCHITECT**

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Please write giving experience and salary required to:-  
Anthony Stocken, St. Andrews House  
Wilton, Salisbury SP2 0DL

**LONDON BOROUGH OF HARINGEY  
TEMPORARY COMMUNITY  
BUILDINGS WORKER**

£12,342 - £13,035 50%

For the Selby Road Development Project, Tottenham. Tottenham School, Selby Road is being converted for use by local community groups. Project support is needed to aid the establishment of projects which meet the needs of women, young people, the elderly, black and minority ethnic communities and people with disabilities as well as local residents. This major development will provide social, recreational, art and sports facilities for the community with all the projects based at the site working towards a common ethos of anti-racism, anti-sexism, equal opportunities and community accountability. You will make up a team of 3 staff, who will work together for the duration of the building conversion programme, which should be completed in under 18 months. You will manage the buildings day to day and work with the Building Design Services on alterations and repairs. You will need experience of building management, maintenance, supervision of manual staff and consultation work with community groups, in either Local Authority or the voluntary sector. You will need to demonstrate a clear commitment to anti-racist and anti-sexist policies. We would particularly welcome applications from women and black and minority ethnic communities who are under represented in the area. Candidates will need to demonstrate an understanding of the needs of women, black and minority ethnic communities and people with disabilities in an inner city, multi racial area. This is a re-advertisement, previous applicants will be considered.

**ADMINISTRATIVE OFFICER**

£9,189 - £9,954 Scale 3

Based at 35 Station Road, N.22. As part of the Central Administrative team of Community Services you will provide, with an administrative assistant, administrative support to the Community Buildings Unit, which operates a network of over 40 Community Centres. This post is currently subject to re-organisation proposals which will additionally involve work on a new technology micro-computer application. You will need broad experience of administrative procedures including handling income and petty cash. Also you must be able to demonstrate experience of dealing with the public in either the public, private or voluntary sector, in a multi cultural inner city environment.

Haringey Council is committed to the implementation of equal opportunities policies to ensure that its workforce accurately reflects the multi-racial composition of the communities it serves. It would be helpful if you had experience in minute taking, handling the letting of spaces, building management issues or experience with Community Centres. We would particularly welcome applications from women and black and minority ethnic communities as they are under represented in the workforce. This is a re-advertisement, previous applicants need not re-apply. Application form and further details from Veronica Holloway or Ann O'neill, Staffing Section, Community Services, 35 Station Road, Wood Green N22 4LE. Tel: 01-851 3000 ext. 2896. Closing date 31st November 1986.

**HARINGEY IS AN EQUAL OPPORTUNITY EMPLOYER**

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# APPOINTMENTS



RIBA Services, a wholly owned subsidiary of the Royal Institute of British Architects, provides a range of information services for architects and specifiers. Owing to the expansion of our loose-leaf technical information services Product Data, we require additional

## TECHNICAL WRITER

The ideal applicant will have experience of writing about the building industry and an appropriate technical qualification. Salary will be circa £12k and the company offers a staff bonus scheme and subsidised canteen.

For further details, please contact Dr J Corneli, RIBA Services Limited, 66 Portland Place, London W1N 4AD. Tel: 01-637 8991.

## REGIONAL DEVELOPMENT MANAGER

Anchor is one of the country's leading national housing associations specialising in both sheltered housing with Warden support for the elderly and schemes for frail elderly people.

Based at the Regional Office in Stroudham, London SW16, the Regional Development Manager will be responsible to the Regional Director for the implementation and management of the regional development programme covering site acquisition, initial project and design control, legal negotiations and securing capital funding from both public and private sources. Considerable travel will be involved.

Candidates must have a background and appropriate experience in housing or property development, or a similar field. Essential personal qualities are the ability to initiate and negotiate with private and public bodies, Local Authorities, the Housing Corporation, private Architects and other professional Consultants, and getting the best out of development staff.

Salary negotiable within the range £13,488-£20,127 per annum plus £1,488 London weighting per annum. Car provided or allowance paid.

For more detailed information and an application form telephone Mrs. Elaine Wise (01-877 8118), or write to: The Regional Director, Anchor Housing Association, Extra House, Station Approach, Stroudham, London SW16 8EJ.

Closing date for applications: Friday 21st November, 1986.



## NORMAN & DAWBARN

require young qualified

## ARCHITECTS & ARCHITECTURAL TECHNICIANS

to join their enthusiastic and busy West Midlands office. The successful Architectural applicant should be aged 28-35, possess good all round abilities and should be skilled in design and presentation.

The successful Technician applicant should be aged 25-35, possess ABAT or BAAT or equivalent, have the ability to work within a team and also be sufficiently self motivated to work on small projects by themselves.

Apply in writing with full C.V.:  
Norman & Dawbarn  
Hammer House  
George Street  
Wolverhampton WV2 4BL

ND

## DEVELOPMENT DEPARTMENT

## Principal Architect

(Education Projects)

PO3 - £14,381 - £16,800

We are looking for an Architect to play a key role in implementing an extensive education building programme.

The successful candidate should have recent experience and proven ability in the design and supervision of education projects. The offices are pleasantly situated in Chingford and close to the M25.

Please quote ref N8372.

As an equal opportunities employer in a multi-racial area the Council expects all its employees to have a commitment to furthering its Equal Opportunities Policy.

Application form and Job Description from:  
Recruitment Officer, Personnel Department  
Town Hall, Walthamstow E17 4JF

Tel. No. 01 531 8899 (24 hour answering service)

Closing date: 28th November 1986

AN EQUAL OPPORTUNITY EMPLOYER

Applicants are considered for their suitability for the post regardless of disability, sex, race and marital status.



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### QUALIFIED ARCHITECT

with several years experience

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also with several years experience

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Tel: 021 233 4474

## Architect

Salary up to £13,632

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You will join a small lively group responsible for the housing refurbishment programme and take full design responsibility for client briefing to final completion. Essential user car allowance payable.

For further information and an application form please contact:  
Chief Personnel Officer, Bromley  
Civic Centre, Rochester Avenue,  
Bromley BR1 3UH. Tel: 01-290 0324 (24 hour answering service). Ref: C. 87.  
Closing date 21st November 1986.



THE LONDON BOROUGH

1786 // 1986

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## Architect and Technicians —

Uxbridge

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**QUALIFIED ARCHITECT — HOUSING**, aged 30-40 with proven aptitude, ability and flair in housing and site layout design. The successful applicant will be responsible for handling all stages of private housing development, partnership housing and retirement homes schemes and will be directly responsible to the Chief Architect. Company car provided.

**SENIOR ARCHITECTURAL TECHNICIANS** with at least 5 years' experience, to be involved in the design, development and detailing of commercial, industrial and housing schemes. Initiative in running own jobs is essential. Company car provided.

**ARCHITECTURAL TECHNICIANS** with HT Cert/Dip or equivalent, and some experience. Successful applicants will have opportunities to gain further varied experience in a range of design and detailing work from housing through to industrial and commercial projects.

Please apply in writing to: Personnel Manager, Lovell Group, Lovell House, 615 Chiswick High Road, London W4 5RX, or telephone 01-747 3311 for an application form.

**Lovell**



## ENTHUSIASTIC

ARCHITECT OR ASSISTANT WITH PROVEN DESIGN ABILITY AND CONSTRUCTION EXPERIENCE TO WORK ON A FREELANCE OR FULL TIME BASIS ON A RANGE OF PROJECTS.

APPLICATIONS IN WRITING WITH CV AND REDUCED DRAWINGS TO

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TELEPHONE: 01-833 2471 • 2 • TELE: 895112



requires

## AN ARCHITECTURAL ASSISTANT/TECHNICIAN

Architectural Assistant MSAAT or equivalent and a minimum of three years experience since obtaining these qualifications. A sound knowledge of Construction & Buildings Regulations is also essential.

Salary will be negotiable, together with all the benefits of a large store, including immediate discount on personal shopping.

Please apply in writing with a full C.V. to: Miss D. Walker, Recruitment Manager, Personnel Department, Harrods Ltd., Knightsbridge, London SW1X 7XL.

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to join William Stones, the Regional Company based in Sheffield.

The successful applicant will be responsible for the capital improvement and maintenance of the licensed estate, leading a team of Project Surveyors, Maintenance Surveyors and Designer, as well as controlling the activities of outside Architects, Quantity Surveyors, Engineers and Contractors.

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An excellent salary, company car and other benefits are offered.

Please apply in writing giving full details of experience, qualifications and current salary to Mr. D. J. Lavender, Personnel Officer, Bass North Ltd., United House, 48 Seymour Grove, Manchester M16 0WD.



## Bickerdike Allen Partners

Applications are invited for full-time positions.

Suitable applicants will be experienced architects with a sound knowledge of building design, technology and contract management.

Or more recently qualified architects keen to develop their skills and knowledge.

Salary negotiable and related to experience.

Apply in writing in the first instance with brief CV and telephone number to:

Joyce Dayer  
Bickerdike Allen Partners  
Queens Studios  
121 Salisbury Road  
London NW6 6RG

## BERKELEY HOMES (LONDON) LIMITED

This recently established subsidiary of the highly successful Berkeley Group plc now has a key management team in place. To supplement this we now require an

## ARCHITECTURAL TECHNICIAN

with at least 5 years technical drawing experience including private housing developments. He/she will report direct to our Chief Designer and should have detailed knowledge of Building Regulations. Salary and benefits are negotiable, commensurate with experience and qualifications. Location will be in the London area.



Please apply in writing to:

H M Watson  
Berkeley Homes (London) Limited  
'Littlegarth'  
Baker Street  
WEYBRIDGE  
Surrey  
Telephone: Weybridge 56429

## Brent Development Architects

With a large and varied programme of Capital Projects, Brent Development is a significant partner of the private sector. As a result our Consultant Liaison Team for Housing Projects play an important role in the organisation: establishing briefs, commissioning work and monitoring its successful progress. Due to recent promotions, applications are now sought for two posts within the team:

## CONSULTANT LIAISON OFFICER

(Architect/Surveyor — PO1B)

£12,585-£13,853 p.a./plus £1,183 L.W. and supplements

As head of the Consultant Liaison Team for Housing Projects, you should be a suitably qualified and experienced Architect or Surveyor, from either the public or private sector, must be technically competent in housing rehabilitation work and capable of dealing directly at Partner level in the private practice commissioned, methodical, thorough administration is a top requisite for this important function. Ref: D/880

## ARCHITECTURAL ASSISTANT — SC6

£9,813-£10,164 p.a./plus £1,183 L.W. and supplements

An Architect or Surveyor with suitable experience is required to assist the Consultant Liaison Officer in Consultant Liaison work. Applicants must be well versed in housing rehabilitation practice and be interested in the predominantly administrative aspects of this type of work. Ref: D/802

Brent is an Equal Opportunity Employer. Applications are welcome from candidates irrespective of race, nationality, ethnic or national origin, age, marital status or gender and from lesbians and gay men and disabled persons. Job shareers welcome.

Application forms and job descriptions from the Personnel Division Room, 1 Brent Town Hall Annex, Kings Drive, Wembley, Middlesex HA9 8BR, returnable 31st November 1986, telephone 01-903 0371 (24 hour Answerphone service). Reference numbers must be quoted.

London Borough of  
**BRENT**

# APPOINTMENTS

## Project Planners Programme Your Future

Due to continued expansion and promotion, one of the largest architectural partnerships in the U.K. are appointing additional Project Planners and Programmers. This multi-disciplined practice has a workload equally balanced between public and private sectors and across the full spectrum of development and re-furbishment contracts, including Shopping Centres, Hospitals, Commercial premises and Housing. Candidates will need to have an in-depth knowledge of the building industry gained in one of the associated professions or through a related Institute of Management course. Ideally, you will be a graduate 28 to 35, strongly motivated with the ability to work to very tight deadlines.

The appointments call for an organised but innovative approach and provide a great deal of latitude, within the broad partnership procedural guidelines. Projects will range in individual value to in excess of £10 million.

Based in London, this is an opportunity to join a highly renowned organisation which is structured to enable career potential to be recognised and rewarded. Salary is negotiable in accordance with age and experience, and other fringe benefits are offered.

Applications should be sent with CV to Charles Earp of Cripps, Sears & Associates Limited, Personnel Management Consultants, International Buildings, 71 Kingsway, London WC2B 6ST. Tel: 01-404 8701.

**Cripps, Sears**

## ARCHITECTS

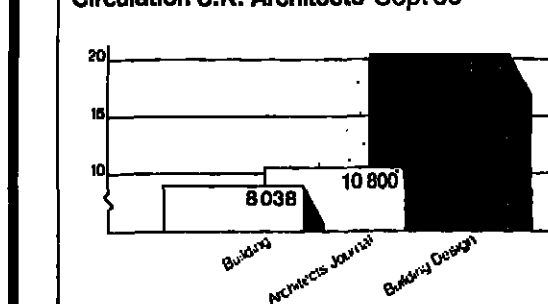
Applications are invited from Architects who would like to play a major role in the development and expansion of a City practice, where a varied programme of commercial and industrial projects are undertaken. Salaries are excellent to match the importance of these positions.

Please phone or send cv to:  
Mark Bremer  
New Image  
28 Maddox Street, London W1  
01-493 6241 (AGV)

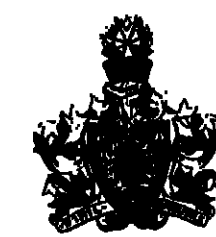
## RECRUIT YOUR STAFF THROUGH BUILDING DESIGN

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Circulation U.K. Architects Sept 86



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## CHARLES CHURCH ARCHITECTURAL ASSISTANT

required to join existing team producing house layout and house design for residential development company. Applicants must possess imaginative design ability to produce high quality housing schemes. Experience in planning procedures and the building regulations essential to negotiate with local authority departments to achieve successful schemes.

Preferred age 25-30 with HNC, RIBA Part I or equivalent qualification with at least 5 years practical experience.

Please write with C.V. to:

Mr P V Hamilton

Charles Church Development Ltd

Charles Church House, Knoll Road

Camberley, Surrey GU5 3TQ

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## EDMUND TORY & ASSOCIATES

require

## ARCHITECTS & TECHNICIANS

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Telephone: (044 27) 8671

or write to:

Edmund Tory & Assoc.

254 High Street

Berkhamstead, Herts HP4 1AQ

## JOINT LANDSCAPE GROUP

## ASSISTANT LANDSCAPE ARCHITECT

(Scale 5/50: £28,391-£12,197)

Suitably qualified Landscape Architect required to join the Joint Landscape Group which under the direction of the City Planning Officer and the City Architect provides a comprehensive landscape advisory and design service. Duties include the design and implementation of landscape projects from initial design, through contract to final maintenance, and advice on planning applications, City-wide and Local Plans, tree preservation, etc.

Application form and job description from the City Planning Officer, Civic Centre, Newcastle upon Tyne NE1 8PH (tel 091-2328528, ext 6105), returnable by 24 November 1986.

## City of Newcastle upon Tyne

This is an Equal Opportunities Advertisement

Applicants are considered on the basis of their suitability for the post, regardless of ethnic origin, sex, marital status or disability.

Department of Engineering Services and Transportation  
Vacancy Number 688

## ARCHITECTURAL TECHNICIAN

Scale 3/4 £6,808-£8,172 per annum

Applications are invited from suitably qualified or experienced persons for the above mentioned post. The successful applicant will be a member of a team responsible for schemes of an architectural nature connected with new housebuilding, improvement and repairs to existing housing stock, and adaptation, improvement, repair and maintenance of public buildings.

The post carries a casual user car allowance (restricted to 1450cc).

Application forms and Job Descriptions are available from the Personnel Officer, Town Clerk's Department, Municipal Offices, St. James Street, Accrington BB5 1PC. Telephone Accrington 384131 to whom they must be returned not later than 21st November 1986.

**BOROUGH OF**

**HYNDBURN**

# APPOINTMENTS

## SHEPHERDS BUSH HOUSING ASSOCIATION LTD ARCHITECTURAL ASSISTANT

We require, for our lively Architectural Department, a Part II diploma graduate to run their own jobs from inception to completion after a period of initial guidance. Excellent experience for practical training is provided. A person with a good sense of design, a practical frame of mind and an interest in rehabilitation as well as new build work is sought.

Salary £11,027 to £11,884 p.a. including London Weighting, 25 days leave, LVs, non contributory pension scheme and flexi-time working arrangement.

For further information and application form please contact:

Personnel & Administration Manager  
Shepherds Bush Housing Association Ltd  
28/29 Eastman Road, London W3 7YG. Tel: 01-743 7465  
Closing date for applications: 1st December 1986.  
SBHA IS IMPLEMENTING AN EQUAL OPPORTUNITIES POLICY

## ARCHITECT/TECHNICIAN

required in small busy practice specialising in Housing Association work. Must be conversant with contract procedures and site control. Reply in writing please to:

Carl Hobbs Architects  
The Coach House  
841 Hagley Road  
Edgbaston, Birmingham B16 9RR



## ARCHITECTURAL TECHNICIAN

A vacancy exists for MBAT or equivalent in our design team. Varied workload in development, design & build, and consultancy from housing to industrial.

Please send CV to the right applicant.  
Apply in writing with full CV to:-  
William Ellis (Etchingham) Limited  
High Street, Etchingham, East Sussex TN19 7AL  
Tel: Etchingham (038-081) 356/544

## ARCHITECTS + TECHNICIANS

It's getting a bit cramped here, but we will even take on additional office space to make room for REALLY GOOD staff! So if you feel you can contribute to a variety of commercial or housing projects send your CV to:

Andrew Thompson  
KINGHAM KNIGHT ASSOCIATES  
18 Queen Avenue, Castle Street, Liverpool L4 4XD  
Telephone: 051 236 3186

## PERCY THOMAS PARTNERSHIP COMPUTER OPERATIONS

A SENIOR QUALIFIED ARCHITECTURAL TECHNICIAN OPERATOR AND MANAGER  
with several years experience as a technician. Some previous CAD experience useful but not essential.

## TWO JUNIOR TECHNICIANS - COMPUTER OPERATIONS

To work on a local "stand alone" workstation of our intergraphic system.  
Successful applicants will be expected to work shifts of 6 1/2 hours which rotate between 6.00am and 12.00 midnight. We will train you to operate the system.  
These posts are for permanent staff and offer excellent career prospects. There is a lively and congenial working environment in modern air conditioned offices. Good salaries and special allowances will be paid to successful applicants.

Please write to me, quoting Ref C1, with a CV to:  
John P B Gilmour  
Percy Thomas Partnership, Civic House  
156 Great Charles Street, Birmingham B3 3HN  
Tel: 021 233 4474

## BAILY & GARNER CHARTERED BUILDING SURVEYORS

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## ARCHITECTURAL TECHNICIANS

£9,000.00-£11,000.00 P.A.

To work on a varied project portfolio in both the new build and rehabilitation sectors.

A great opportunity to obtain wide experience in residential, commercial and industrial developments.  
Good working conditions and friendly environment.  
Negotiable car allowance.

Apply in writing with C.V. to Graham Garner, FRICS

## DESIGN ARCHITECTS ASSISTANT ARCHITECTS

The practice has a number of new projects in the London area and is seeking staff with 3-5 years experience to work on schemes from concept design through to working drawings.

## INTERIOR DESIGNERS

A Designer with at least 10 years of varied experience of high quality work is required for the interior design section of the office.  
Projects currently being undertaken include hotels and offices, superstores, higher educational buildings and refurbishment.

Please apply in writing, enclosing a CV to:

Liz Sanders  
John S Bonington Partnership  
Tytenhanger House, St Albans AL4 0PG



**THE BARTON WILLMORE PARTNERSHIP**  
We wish to expand our London office and require the following staff to work on a variety of interesting and challenging building types.

## ARCHITECTS

graduates (RIBA) age 25-35 with proven design ability and capable of working with the minimum of supervision.

## ARCHITECTURAL TECHNICIANS

aged 25-35 should hold HNC in building and preferably be members of BIAT.

Attractive salaries and benefits, including paid overtime, to the successful applicants.  
Please apply in writing with full C.V. and present salary to:  
R. B. HALL ESQ, The Barton Willmore Partnership, 6 Gold Square, London W1R 4HN

**VAT ON ADVERTISEMENTS**  
Value Added Tax will be chargeable at the standard rate (18%) on all advertisements.  
This tax can be reclaimed by all VAT registered companies from H.M. Customs and Excise.

## Brent Development Architects

**CLERK OF WORKS SCALE 6**  
plus £1,183 L.W. and supplements  
£9,513-£10,164 p.a.

Suitably experienced building Clerks of Works is required for a wide variety of new build and rehabilitation schemes under the control of the Construction Division.

Applicants must have a thorough knowledge of good building practice and Building Regulations and be familiar with contract procedures.  
Brent is an Equal Opportunity Employer. Applications are welcome from candidates irrespective of race, nationality, ethnic or national origins, age, marital status or gender and from lesbians and gay men and disabled persons. Job Sharers welcome.

Application forms and job descriptions from the Personnel Division, Room 1, Brent Town Hall Annex, Kings Drive, Wembley, Middlesex HA9 9BR, returnable by 28th November 1986. Telephone 01 903 0371 (24 hour Answerphone service).

Reference number D/84 must be quoted.

London Borough of  
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# APPOINTMENTS

## PROPERTY SERVICES ASSISTANT ZONE ARCHITECT

We require a highly motivated Architect with proven ability in design, project and staff management for a key post within the Architects' Division. The Assistant Zone Architect has responsibility for assisting in the management of a team providing building professionals, operates in a multi-professional team co-ordinating the Council's property management services.

We operate a CAD Bureau and, in consequence, we would be interested in candidates offering expertise in, and enthusiasm for using and developing computers in architecture for which training may be provided.

Car loan facilities and re-location expenses will be available, as appropriate. The post carries an Essential User car classification.

For further details and application form, please contact the Department of Property Services, Central Services Section (Staff Management), PO Box 26, County Hall, Preston, PR1 3RE. Telephone: Preston 263271.  
Closing date: Friday, 21st November, 1986.

**Lancashire County Council**  
An Equal Opportunities employer

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RAMBLE & BIKE & HIKE & TOUR &  
TAN & SKI & SAIL & SWIM & SHOP  
& BUILD SANDCASTLES**

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Clients in Birmingham have many vacancies for good all round technicians for checking and making good working drawings.

## PERMANENT APPOINTMENTS

Technician - for Herts  
OS/Managing Supervisor - London, age 25-33 for structural and concrete repairs.  
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Associate Level - RIBA II, 7/8 years experience, £25k  
Job Architect - RIBA II, 6 years experience, £27k  
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Tel: 01-736 9857 or write:  
Technical Engineering & Development  
3-5 Heathmans Road  
London SW6 4TJ

## MELDRUM, LEE & GILLATT Architects & Quantity Surveyors

require  
**ARCHITECT AND TECHNICIANS**

Please write with full CV to  
71 Broadway  
PETERBOROUGH  
Cambridgeshire PE1 1SY



## ABBEY HOMESTEADS (DEVELOPMENTS) LIMITED require A SENIOR ENGINEER

The person appointed will be responsible for the overseeing of working drawings from consultants, liaison with local authorities, utility companies etc. and dealing with all technical matters associated with private housing developments.  
This is a senior position within the company and therefore, applicants must have considerable proven experience of house-building.

In return, we offer a very competitive salary, company car, private medical cover and optional pension/life assurance schemes.

Please apply, in writing with full CV to:  
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Chief Engineer  
Abbey Homesteads (Developments) Limited  
Star House, Mutton Lane  
Potters Bar, Herts EN8 2QP

## COMMUNITY DESIGN TECHNICAL

Requires full-time & part-time

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## 2. Landscape Architects

Both with design, technical and contract experience.

This is an exciting informal office committed to working on innovative community schemes - and enjoying the process.

Salary scale up to P03 (£15,000) pro rata according to experience.

Application forms from: Free Form, 38 Dalcroft Lane, E8 3AZ.

An equal opportunities employer. Hackney Council/DOE funded.

Tel: 01 248 8384

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Spaces immediately available in shared designers studio in EC2. Newly refurbished, all facilities provided, excellent light. Car parking available.

Tel: 01-377 8777

## ANNOUNCEMENTS

## UNIVERSITY COLLEGE LONDON

The Richard Llewellyn-Davies Memorial Lecture. The Nuffield Planning Inquiry by Rt Hon. The Lord Flowers, Vice-Chancellor, University of London, Mon. 17 Nov. at 4pm. Chemistry Auditorium, 20 Gordon St, WC1.

## ARCHITECTURAL ASSISTANT

at H. Tech standard or above with initiative and 3-5 years experience in private architects practice.

Required for position in the Building Design division of Chartered Surveyors.

Telephone Mr Ian Holmes Steele  
AA Cantab RIBA, 81 John Vaughan,  
194 High Street, Uckfield, Sussex  
TN8 1HT. (0885) 61644.

## FREE LANCE ARCHITECTS/TECHNICIANS

required for mid-Kent projects.

Telephone: Maidstone (0622) 54249

## FACULTY OF TECHNOLOGY

Department of Architecture

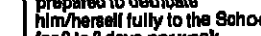
Part-Time Lecturer (Short Term Appointment)

Rate of Pay: £14.36 per hour

The School is looking for an enthusiastic, energetic and energetic architect who is prepared to dedicate him/herself fully to the School for 2 to 3 days per week.

The post is to be taken up as soon as possible.

Application forms, to be returned by 21 November 1986, can be obtained at the address below or by telephoning (0752) 294638.



Plymouth Polytechnic  
Drake Circus, Plymouth  
Devon PL4 8AA

## MALLA

## ARCHITECTURAL HOT LINE

01-387 1043

334 Euston Road, London NW1 3BG

## Eric Lyons Cunningham Partnership

urgently require an Assistant Architect with 5-10 years' experience, for work on an interesting high-tech Exhibition Centre.

Please write with c.v. to:  
Eric Lyons Cunningham Partnership, Mill House Studio, Bridge Road, East Molesey, Surrey KT8 9HF.

## OXFORD

A small City Practice requires:

## Architect

with an interest in conservation of historic buildings, some experience would be advantageous.

## Technician

with several years experience, to work on a variety of new-build and refurbishment projects. Write in the first instance with CV and A4 examples of work to: Bosanquet & Perryman Associates, 38 Beaumont Street Oxford OX1 2PD

## BROADWAY & MALYAN

Due to a series of competition successes involving major commercial, retail and residential projects, we are looking to fill a number of vacancies in our four offices.

## WEYBRIDGE

- \* Architects with design flair
- \* Architectural technicians
- \* Senior Architect/Planner
- \* Planning technicians
- \* Landscape architect

## READING

## SOUTHAMPTON

## LONDON OFFICE

14 Mount Row, W1

## Fringe Benefits

Reply with CV to:

- \* Architect with design flair (Part II or III)
- \* Qualified Architect (or Part II)
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BUPA Personal Health Scheme. Salary by negotiation.

Richard Manthorpe, BROADWAY AND MALYAN, Osprey House, Station Road, Addlestone, Weybridge KT15 8BH. Tel: 0932 43999.

## ARCHITECTS & TECHNICIANS

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Applicants must have at least 3 years experience in London with a good knowledge of building construction technology and by-laws, and be able to deal with statutory authorities.

Please send CVs to:  
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Our design and contracting department require a

## SENIOR DESIGNER

We are an expanding company involved in the refurbishment of pubs, restaurants and hotels. In addition to this we supply a wide range of architectural and interior products to the leisure industry. The post involves the preparation of sketches, layouts, working drawings, specifications and supervising contracts. A good knowledge of building and joinery construction will be an advantage.

The successful applicant will be enthusiastic, have a practical approach and at least 5 years experience. The company offers an attractive salary, company car and bonus schemes.

Please write giving career and salary details to:  
Mr J. Bagshaw  
Andy Thornton Architectural Antiques Ltd  
Ainslie Industrial Estate  
Elford, W. Yorkshire HD3 9JP

## THE ARCHITON PARTNERSHIP

requires further

## Architectural Assistants

to intermediate standard.

Please write with CV to:  
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The main duties involve architectural design, construction supervision and providing architectural advice to the Authority.

A lump sum car allowance of £850 and relocation expenses of £2,300 are payable.

The post is situated in modern well-appointed offices with flexi-time and a subsidised staff restaurant.

Application forms and further details are available from Mrs Louie Reed, Manager Services Section, Civic Offices, Leigh Road, Eastleigh, Hants SO5 4YN.

Telephone Eastleigh (0783) 614646 Ext. 3054.

Closing date 21st November 1986.



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An Equal Opportunity Employer